METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JULY TO 31ST DECEMBER, 1898.

DAILY WEATHER REPORT.

July to December 1898.

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 1st October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·43	43	NNE	2	c	30·29	-·14	45	42	+ 3	SW	2	0	*	c	*	46	37	-
	Hernösand ...	30·35	47	2	0	0	30·27	-·12	46	45	+ 1	2	0	0	*	0	*	50	43	0·32
	Stockholm ...	30·23	50	ESE	6	r	30·21	-·01	49	49	- 2	ESE	2	r	*	r	*	52	46	0·24
	Wisby	30·16	53	SSE	4	0	30·18	+·06	50	48	0	SSE	4	c	*	0	*	54	46	-
	Karlstad ...	30·13	48	NE	2	0	30·15	+·02	49	48	+ 2	NE	2	f	*	0	*	*	*	0·32
	Bodö*	30·14	45	E	1	0	30·08	-·15	46	44	- 2	SE	1	c	0	0	*	54	43	0·08
	Christiansund ...	30·16	49	SW	2	r	30·15	+·03	49	46	- 2	2	0	c	3	r	*	54	48	0·12
	Skudesnaes ...	30·15	47	2	0	b	30·24	+·18	47	45	- 5	2	0	b	1	bc.b	*	57	45	*
	Færder (Christiania Fjord)	30·08	49	N	5	r	30·17	+·11	49	47	+ 2	N	4	0	2	r	*	49	46	0·55
	Skagen (The Scaw)	30·09	53	E	1	m	30·16	+·23	54	53	+ 5	E	1	0	0	m	*	55	49	0·20
	Fanö	30·13	47	NNW	2	b	30·17	+·20	48	46	- 1	N	2	b	*	b	*	59	46	-
BRITISH ISLANDS.	Sumburgh Head	30·02	52	2	0	r	30·02	+·07	51	50	- 2	SSW	1	0	4	o.r	*	57	48	0·80
	Stornoway ...	30·01	51	NW	2	b	29·96	+·06	55	54	+ 10	WSW	4	0	4	c.b	3·7	59	42	0·05
	Wick	29·97	50	S	1	0	30·02	+·11	53	52	- 2	S	2	0	2	o	*	56	46	0·01
	Nairn	30·02	54	2	0	c	30·05	+·17	54	51	+ 2	W	2	c	1	c	*	56	46	0·04
	Aberdeen ...	30·05	55	S	2	og	30·11	+·21	54	52	- 1	SW	2	og	2	bc.og	1·5	59	49	-
	Leith	30·00	54	2	0	0	30·17	+·39	54	52	0	WSW	2	cm	*	o	*	57	51	0·01
	Shields	30·04	55	2	0	cm	30·22	+·42	48	47	- 7	SW	2	m	2	b,cm	*	60	46	-
	Spurn Head ...	30·00	57	ENE	3	b	30·25	+·48	52	51	- 5	WNW	1	bcm	3	b,fw	*	62	49	-
	York	30·01	57	E	1	b	30·27	+·53	44	44	- 10	SE	1	f	*	o,b	2·2	64	41	-
	Loughborough ...	30·01	52	NW	1	b	30·29	+·58	41	41	- 11	SW	1	ofw	*	op.c.bf	*	59	37	0·01
	Ardrossan ...	30·03	55	2	0	of	30·18	+·37	54	53	+ 1	S	3	o	3	of	*	56	50	-
	Malin Head ...	30·06	53	NNW	2	b	30·11	+·24	58	56	+ 5	SSW	3	om	2	bc.b	*	58	48	0·01
	Belmullet ...	30·08	58	WNW	1	0	30·17	+·15	60	59	+ 5	WSW	3	om	*	b,o	*	62	54	0·02
	Donaghadee ...	30·05	54	NNW	6	bc	30·19	+·39	52	50	- 1	SW	3	c	2	bc	*	58	42	0·01
	Liverpool (Bidston)	30·03	54	NW	1	0	30·26	+·59	53	52	- 1	WSW	1	bc	1	ogp	*	57	52	0·11
	Holyhead ...	30·05	56	N	5	0	30·25	+·51	50	49	- 4	SE	1	bf	1	op.o	*	56	48	0·02
	Parsonstown ...	30·10	55	2	0	c	30·23	+·25	53	53	+ 4	2	0	o	*	b.c	8·2	61	48	-
	Valencia ...	30·15	59	W	1	c	30·24	+·17	60	60	+ 3	SSE	1	om	3	c	5·7	61	55	0·01
	Roche's Point ...	30·11	60	NNW	3	bc	30·28	+·26	57	56	+ 4	NW	1	f	2	bc	*	61	50	-
	Pembroke (St. Ann's Hd.)	30·06	55	NE	4	b	30·28	+·45	55	53	+ 1	E	1	bm	3	o,b	3·1	57	40	-
	Scilly	30·08	59	NNW	5	c	30·27	+·40	60	56	+ 4	NNE	1	bcw	1	c	8·2	61	55	-
	Prawle Point ...	30·01	55	N	3	0	30·27	+·53	55	52	+ 3	N	3	b	2	o,c	*	58	48	-
	Jersey (St. Aubin's)	29·87	59	NW	7	cgm	30·20	+·56	60	56	+ 2	NNE	4	bcm	3	og,cp	*	61	56	0·04
	Hurst Castle ...	29·96	56	NNE	2	om	30·25	+·66	53	51	- 4	NE	2	bm	2	o.bm	*	60	47	-
	Dungeness ...	29·89	59	ENE	4	c	30·21	+·55	50	49	- 4	N	2	b	1	c	*	60	46	0·03
	North Foreland	29·94	58	NE	4	bc	30·23	+·52	60	55	+ 6	NE	3	bc	4	o,bc	*	60	53	-
	London (Brixton) ...	29·97	56	ENE	2	o	30·27	+·60	43	43	- 10	E	1	bf	*	og,bw	0·0	57	39	-
	Oxford	30·06	50	N	1	b	30·29	+·63	43	42	- 11	NNW	1	bc	*	op.b	*	57	38	0·01
	Cambridge ...	30·01	53	ENE	1	bm	30·29	+·56	41	41	- 12	2	0	f	*	om.b	0·3	61	35	-
	Yarmouth ...	29·96	58	E	4	c	30·24	+·47	58	53	+ 1	NNE	3	b	3	b	*	60	51	-
GERMANY & HOLLAND.	Cuxhaven ...	30·02	55	N	2	b	30·17	+·21	51	47	+ 6	NNE	3	o	*	b	*	57	45	-
	Berlin	29·98	53	NNE	2	r	30·04		53	52		NNE	3	r	*	r	*	54	52	0·12
	Wiesbaden ...	*	*	*	*	*	30·03	+·10	52	51	+ 8	N	3	o	*	*	*	57	44	0·04
	Munich... ...	29·85	50	SE	2	0	29·96	+·07	49	49	0	W	1	f	*	o	*	54	48	0·04
	The Helder ...	30·00	57	ENE	3	b	30·20	+·33	56	52	+ 1	NE	1	b	1	b	*	61	52	-
BELGIUM.	Brussels ...	*	*	*	*	*	30·17	+·34	46	45	- 2	NNE	4	b	*	b	*	60	44	-
	Cape Gris Nez...	?	56	ESE	2	0	?	?	54	49	+ 2	E	2	bc	1	o	*	61	48	-
	Paris	30·20	53	NNE	2	b	30·09	+·37	45	44	- 2	N	2	b	*	b	*	54	45	0·12
	Brest	30·01	57	NNW	5	c	30·22	+·40	53	52	- 2	NE	2	b	3	c	*	61	50	-
	Lorient... ...	29·96	57	NNW	6	0	30·18	+·36	57	55	0	NNW	4	c	4	o	*	61	44	-
FRANCE &	Rochefort ...	29·88	59	NW	6	0	30·07	+·29	54	52	- 5	NNE	5	b	*	r.o	*	64	52	?
	Belfort	29·77	49	E	1	r	29·92	+·06	47	47	+ 3	2	0	m	*	r	*	58	44	-
	Lyons	29·78	51	NE	1	0	29·88	-·01	50	49	+ 6	NW	2	f	*	f.o	*	67	44	0·24
	Nice	29·69	63	E	1	c	29·76	-·02	55	51	- 2	ESE	3	c	2	c	*	72	54	-
	Perpignan ...	29·85	63	NW	4	0	29·84	-·07	59	53	+ 6	N	3	o	*	o	*	80	53	0·04
	Biarritz ...	30·00	61	NNW	7	r	30·00	+·08	61	58	- 3	N	5	r	6	r	*	68	57	0·32
PENINSULA.	Corunna ...																*			
	Lisbon	30·10	64	N	4	b	30·04	-·13	67	58	+ 1	N	3	b	*	b	*	72	63	-
	Azores (F. Delgada)	30·15	70	SSE	2	c	30·05	-·16	69	67	+ 2	SSW	4	o	5	c	*	75	66	0·04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

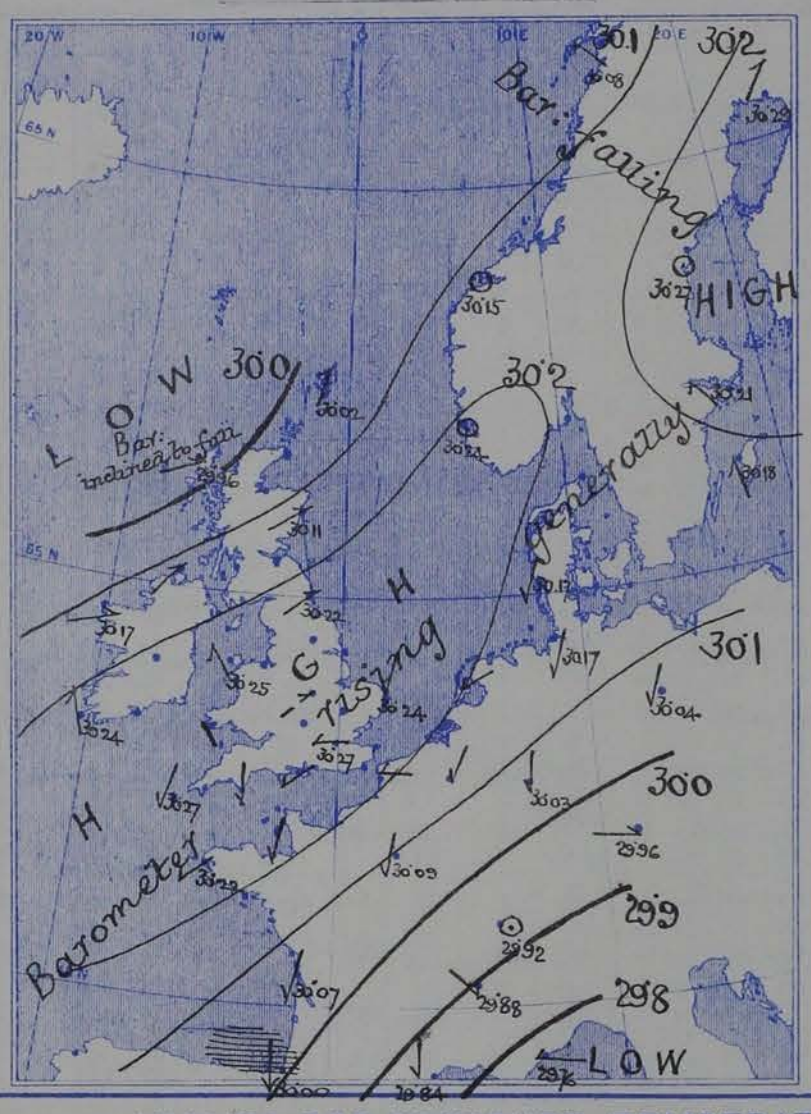
Bright Sunshine yesterday Southport 0·1 hrs.

WEATHER CHARTS

FOR Saturday 1st October, 1898

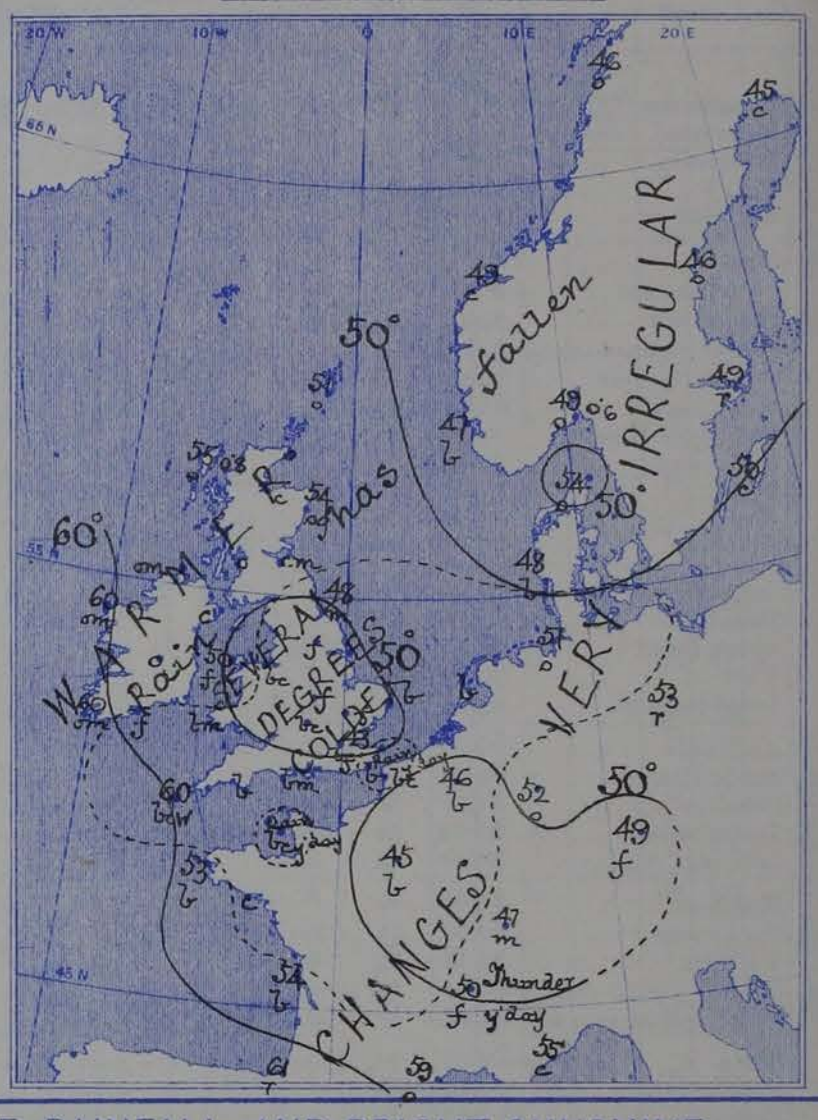
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—		—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in. and upwards in an anticyclone stretching from the southwestward over Ireland, England, and the North Sea, and also in another system over the Gulf of Bothnia.

Lowest, 29·8 in. and less, in a shallow depression over the Gulf of Genoa; 30·0 in. and less in another shallow system off the north of Scotland.

Gradients slight. Barometer rising in most parts of Western Europe, but falling in Scandinavia, and inclined to fall in the north of Scotland.

TEMPERATURE

Highest, (1) 61° at Biarritz and 59° at Perpignan; (2) 60° at Belmullet, Valencia (Ireland), Scilly, Jersey, and the North Foreland.

Lowest, (1) 41° at Loughborough and Cambridge, 43° at Oxford and London, 44° at York, and 45° at Paris; (2) 45° at Haparanda, and 46° at Bodö and Hernösand.

The maxima registered yesterday were below 60° in many parts of Great Britain and below 65° in Ireland; in London and at Oxford the thermometer did not exceed 57°.

WIND

Light to moderate from the N. or NE. over the south of England and also over Denmark, Germany, France, and the Netherlands.

Light from the S. or SW. in Ireland and Scotland.

Calm in the west of Norway; SE. in the south of Sweden.

WEATHER

Fine over England, France, and the Netherlands, but with fog or mist in many places. A solar halo and parhelia are visible at Oxford.

Cloudy or dull in Ireland and Scotland, and also in Scandinavia, Denmark, and Germany, with rain at Stockholm and Berlin, as well as at Biarritz.

Showers fell yesterday in several parts of the United Kingdom, and heavy rain at Lerwick Head. Rain fell also at many of the Continental stations, and thunder occurred at Lyons.

SEA

Moderate off the north of Scotland, slight or smooth on many parts of the British and Irish coasts, but rough at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone which has appeared over our Islands and the North Sea will probably move southwards or southeastwards, and depressions are likely to affect our western and northern coasts. Over the greater part of England, however, the weather will probably continue fine and dry for the present.

FORECASTS

For the 24 hours ending at NOON on 2nd OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SW. to S. winds; fair at first, some rain later.
2 ENGLAND N.E.	S. and SE. winds, light; fair generally, but some fog or mist.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NE. to Variable airs; fair generally, but some fog or mist.
6 SCOTLAND WEST 7 ENGLAND N.W.	S. winds, freshening; fair at first, some rain later.
8 ENGLAND S.W.	Same as Nos 3 to 5.
9 IRELAND NORTH 10 IRELAND SOUTH	S. winds, freshening; cloudy, unsettled, some rain
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·12	57	49	W	0	bc	2	Valencia ...	30·12	61	57	W	2	c	4
Sumburgh Head	30·00	54	52	SE	2	o	4	Scilly ...	30·00	59	55	NNW	7	c	4
Stornoway ...	29·95	59	53	W	1	c	1	Jersey ...	29·77	60	56	WNW	7	o	5
Aberdeen ...	29·98	57	55	SE	3	bc	4	Hurst Castle ...	29·79	60	57	NNE	3	o	?
Shields ...	29·96	58	54	ESE	2	b	3	Dungeness ...	29·78	59	54	E	4	c	3
Ardrossan ...	29·93	56	55	W	0	of	0	North Foreland	29·83	59	52	E	5	o	4
Malin Head ...	29·99	55	50	NNW	3	bc	3	London (Westminster)	29·83	58	51	E	3	og	*
Belmullet ...	30·07	60	56	WNW	1	b	*	Yarmouth ...	29·88	59	55	E	4	b	4
Holyhead ...	29·95	55	52	N	7	op	6	Rochefort ...	29·86	60	59	NW	6	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over nearly the whole of Europe, with rain in many parts of the western, central and southern countries, and with a thunderstorm at Rome. Fine at some of the Irish stations and also in Portugal, the southeast of France, and some parts of Southern Italy. Some improvement occurring over our Islands later, but showers falling in many districts, rain falling at many of the Continental stations, and thunder occurring at Lyons.

Temperature risen over northwestern Europe generally, but fallen in most other regions. Morning readings highest 72° at Brindisi and Constantinople, 70° at Malta and Sfax, and 68° at Barcelona and Lisbon; above 60° in most parts of southern Europe. Lowest (1) 37° at Archangel, 38° at St Petersburg, and 40° at Riga; (2) 44° at Münster, Wiesbaden, Belfast, and Lyons. Daily maxima below 60° in many parts of Great Britain, but a little above that point in the north of England. Exceeding 70° over the Spanish Peninsula and the south of France, and reaching 80° at Perpignan.

Wind SE^{3} on the east coasts of Great Britain and all neighbouring parts of the Continent, and very strong in force on the southeast coast of England; fresh to strong from the N$^{\circ}$ or NW$^{\circ}$ on the west coasts of our Islands and France and also over the Spanish Peninsula, with a gale in the Irish Sea and at the mouth of the English Channel. Strong from the E$^{\circ}$ or NE$^{\circ}$ in the south of Sweden, and light from the same quarters over Russia; variable over north Germany, N^{4} in south Germany, S^{2} or SE^{4} in Italy. Subsequently shifting to the NE$^{\circ}$ in the southeast of England, and backing to the W$^{\circ}$ in the west of Ireland; gales in west all dying down.

Barometer highest 30·4 in. and upwards in an anticyclone over Lapland and Iceland; 30·2 in. and upwards, in another system off the Portuguese coast. Lowest 29·6 in. and less, in a complex depression with its centre near the Isle of Wight; 29·8 in. and less, in two shallow disturbances, one lying over Austria and the other over the Gulf of Genoa. English depression travelling away later to the southeastward and filling up; barometer rising over Western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 2nd October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	30.05	45	S	4	0	29.77	−.52	46	45	+1	W	2	0	#	0	#	46	39	0.08
	Hernösand ...	30.10	50	SSE	4	0	29.84	−.43	46	45	0	S	4	bc	#	0	#	50	43	0.08
	Stockholm ...	30.17	49	S	2	0	30.08	−.13	50	48	+1	SSW	4	bc	#	0	#	50	46	0.43
	Wisby	30.18	49	S	4	bc	30.19	+.01	52	50	+2	NW	4	c	#	bc	#	55	45	—
	Karlstad ...	30.17	48	W	2	c	30.05	−.10	51	49	+2	SSW	4	0	#	c	#	#	#	—
	Bodö	29.88	48	E	2	r	29.68	−.40	45	44	−1	SW	2	r	1	r	#	52	43	0.47
	Christiansund ...	29.94	49	WSW	2	r	29.73	−.42	54	53	+5	WSW	9	r	5	r	#	54	48	1.30
	Skudesnaes ...	30.18	54	S	6	r	30.16	−.08	56	55	+9	WSW	2	0	2	r	#	56	46	#
	Færder (Christiania Fjord)	30.20	52	SSW	3	c	30.07	−.10	54	53	+5	SW	3	0	3	c	#	54	48	—
	Skagen (The Scaw)	30.24	50	E	0	c	30.18	+.02	55	54	+1	W	2	m	0	c	#	55	48	—
	Fanö	30.30	46	E	0	c	30.31	+.14	53	52	+5	NW	2	b	#	c	#	57	43	—
BRITISH ISLANDS.	Sumburgh Head	29.95	55	W	3	m	30.00	−.02	57	56	+6	W	5	r	6	r,m	#	58	51	0.31
	Stornoway ...	30.01	58	SW	4	0	30.08	+.12	60	59	+5	W	4	0	4	0	0.2	61	52	0.03
	Wick ...	29.93	62	W	1	bc	30.08	+.06	63	60	+10	W	4	bc	1	bc	#	65	53	—
	Nairn	30.09	60	W	3	bc	30.14	+.09	63	61	+9	W	2	0	1	bc	#	66	52	—
	Aberdeen ...	30.12	59	SSW	1	c	30.18	+.07	66	61	+12	SW	1	bcw	?1	c	1.3	66	51	—
	Leith	30.20	57	W	4	0	30.24	+.07	61	59	+7	WSW	2	om	#	0	#	62	52	—
	Shields	30.24	58	SW	3	c	30.30	+.08	56	54	+8	SSW	2	m	2	cm,c	#	64	47	—
	Spurn Head ...	30.26	58	W	2	0	30.32	+.07	55	53	+3	WNW	3	b	3	0	#	65	50	—
	York	30.29	58	WSW	1	b	30.34	+.07	49	47	+5	W	1	0	#	f,b	1.1	59	42	—
	Loughborough ...	30.31	53	WNW	1	c	30.36	+.07	42	42	+1	ESE	1	bcfw	#	c	#	67	37	—
	Ardrossan ...	30.22	56	SSW	3	0	30.27	+.04	58	58	+4	S	2	0	2	0	#	58	53	0.01
	Malin Head ...	30.17	60	SSW	3	omp	30.23	+.12	59	58	+1	SSW	3	0	1	omp	#	61	55	—
	Belmullet ...	30.21	60	SW	3	0	30.24	+.07	61	60	+1	SSW	3	b	#	0	#	62	59	0.01
	Donaghadee ...	30.25	60	WSW	2	c	30.30	+.11	59	59	+7	SW	2	c	0	c	#	61	50	—
	Liverpool (Bidston)	30.31	56	E	0	b	30.35	+.09	53	51	0	SSE	1	0	?	f,b	#	60	50	—
	Holyhead ...	30.29	57	SSW	1	bc	30.32	+.07	58	56	+8	S	1	bc	1	o,bc	#	62	49	—
	Parsonstown ...	30.26	61	E	0	r	30.30	+.07	59	58	+4	E	0	0	#	r	0.0	62	54	0.02
	Valencia ...	30.28	62	S	1	0	30.29	+.05	60	59	0	S	2	ond	3	o	0.0	64	59	0.07
	Roche's Point ..	30.31	60	SW	2	r	30.33	+.05	59	59	+2	SSE	1	om	2	r f	#	61	55	0.05
	Pembroke (St. Ann's Hd.)	30.31	56	NW	2	b	30.34	+.06	53	51	−2	ENE	2	bw	2	b	10.3	60	49	—
	Scilly	30.31	59	NNE	2	bc	30.31	+.04	58	57	−2	NNE	1	bcw	1	b	10.1	63	54	—
	Prawle Point ..	30.31	55	NE	2	b	30.32	+.05	58	55	+3	NE	3	b	2	b	#	60	50	—
	Jersey (St. Aubin's)	30.26	61	NE	3	bm	30.29	+.09	60	55	0	ENE	4	b	3	bm	#	65	54	—
	Hurst Castle ...	30.28	60	E	0	bm	30.33	+.08	52	50	−1	E	0	bm	0	bcfw,bm	#	65	46	—
	Dungeness ...	30.25	58	ENE	4	bc	30.32	+.11	58	54	+8	E	3	bc	2	bc	#	63	49	—
	North Foreland	30.29	58	NE	3	b	30.33	+.10	58	55	−2	NE	3	bc	3	b	#	62	55	—
	London (Brixton) ...	30.29	54	NE	1	bm	30.36	+.09	44	43	+1	ENE	1	f	#	b,fw	3.7	66	40	—
	Oxford	30.34	50	N	1	cm	30.37	+.08	43	43	0	E	0	bm	#	cm	#	66	37	—
	Cambridge ...	30.32	56	N	1	b	30.37	+.08	40	40	−1	SSW	1	bmw	#	b,f	7.0	65	36	—
	Yarmouth ...	30.28	59	NE	3	b	30.33	+.09	53	50	−5	WNW	2	bf	2	b	#	62	45	—
GERMANY & HOLLAND.	Cuxhaven ...	30.23	54	N	2	c	30.33	+.16	49	48	−2	E	0	m	#	c	#	55	46	—
	Berlin	30.19	53	NW	4	0	30.28	+.24	51	49	−2	NW	2	0	#	0	#	57	50	—
	Wiesbaden ...	#	#	#	#	#									#	#	#			
	Munich... ..	30.12	53	E	0	0	30.19	+.23	52	52	+3	NE	5	0	#	0	#	55	49	0.04
	The Helder ...	30.28	56	NE	1	b	30.34	+.14	52	51	−4	E	0	b	0	b	#	59	46	—
BELGIUM.	Brussels ...	#	#	#	#	#	30.32	+.15	48	46	+2	NE	3	bc	#	b	#	61	41	—
	Cape Gris Nez...	?	58	ENE	4	c	?	?	50	46	−4	ESE	2	b	1	c	#	61	45	—
	Paris	30.18	57	N	3	b	30.21	+.12	46	45	+1	NNE	3	bc	#	b	#	61	48	—
	Brest	30.28	59	NE	1	b	30.30	+.08	52	51	−1	NE	1	m	1	b	#	64	46	—
	Lorient... ...	30.22	61	NNE	4	0	30.23	+.05	52	50	−5	NNE	3	b	3	0	#	68	50	—
FRANCE &	Rochefort ...	30.07	64	NE	4	b	30.11	+.04	55	52	+1	NE	4	0	#	b	#	72	52	—
	Belfort	30.10	52	ENE	4	m	30.08	+.16	55	52	+8	ENE	6	0	#	m	#	58	47	—
	Lyons	29.98	55	N	1	0	30.01	+.13	53	52	+3	NW	1	0	#	0	#	56	50	—
	Nice	29.78	54	NE	7	r	29.91	+.15	56	56	+1	NE	4	r	4	r	#	63	48	2.21
	Perpignan ...	29.93	58	W	3	0	29.94	+.10	55	53	−4	NW	2	r	#	0	#	65	52	0.28
	Biarritz ...	30.03	63	N	5	r	30.02	+.02	58	54	−3	NE	2	0	2	r.	#	63	57	—
PENINSULA.	Corunna ...																#			
	Lisbon	29.96	68	NNE	4	bc	29.99	−.05	63	53	−4	NNE	4	b	#	bc	#	79	61	—
	Azores (P. Delgada)	29.95	71	S	4	0	29.85	−.20	71	68	+2	S	4	c	5	0	#	73	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

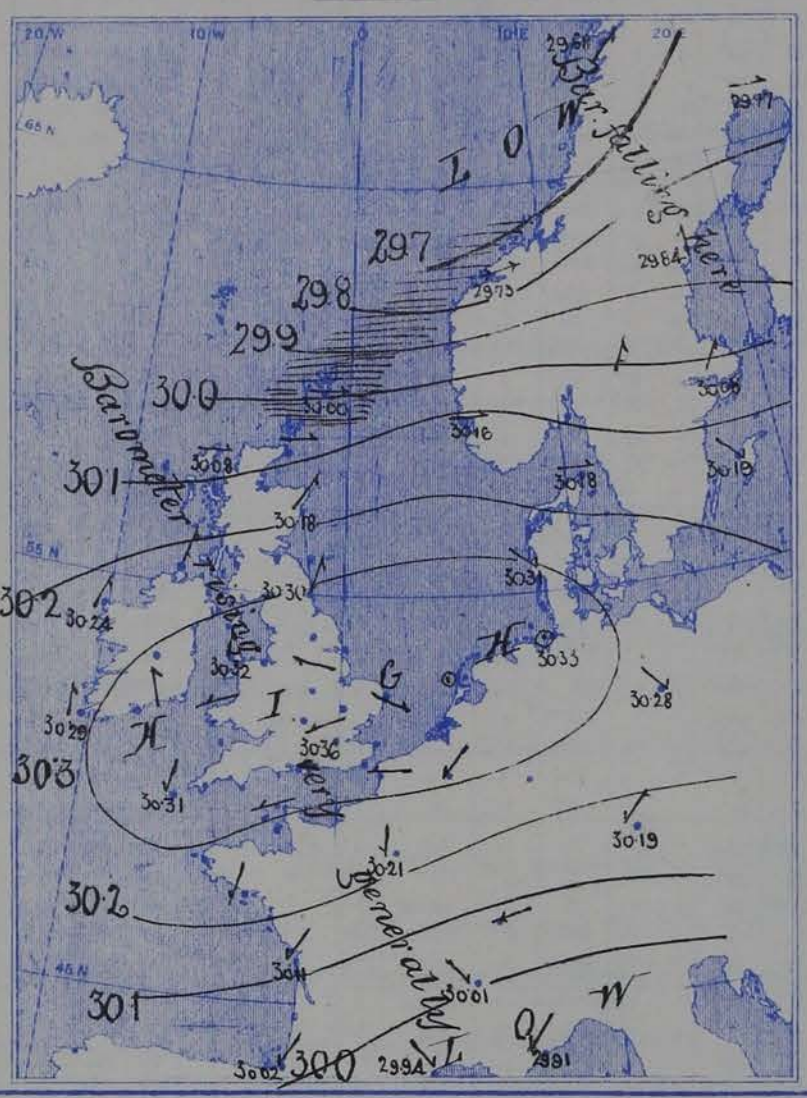
Bright Sunshine yesterday Southport 6.1 hrs;

WEATHER CHARTS

FOR Sunday, 2nd October, 1898

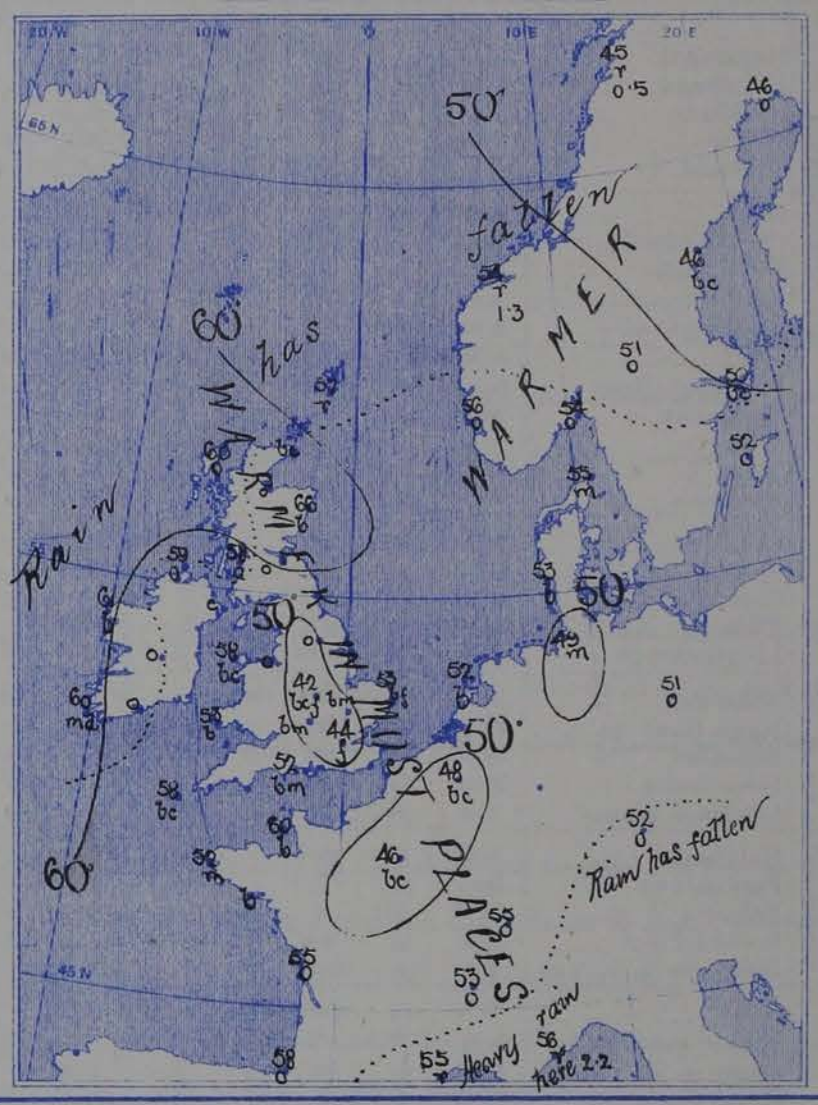
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31		–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51		–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03		–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33		–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83		–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6							–
Belmullet	29·846	49·4	46·4	53·9	46·0					5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44		
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards over England, the southeastern parts of Ireland, the Netherlands and Northwestern Germany; 30·1 in: and upwards in an anticyclone covering the greater part of Western Europe.
Lowest, 29·7 in: and less, in a depression over the northern parts of the Norwegian coasts.
Gradients slight generally, but rather steep over the west of Norway.
Barometer rising at all but the Scandinavian stations; falling fairly in the north of Scandinavia.

TEMPERATURE

Highest, (1) 66° at Aberdeen, 63° at Wick and Nairn, and 61° at Leith and Belmullet; (2) 63° at Luton and 58° at Blarney.
Lowest, (1) 40° at Cambridge, 42° at Loughborough, and 43° at Oxford; (2) 45° at Bodö, and 46° at Haparanda and Hernösand; (3) 46° at Paris.
During yesterday the thermometer rose to 65° or a little above it in many parts of Great Britain; at night the readings in the screen were below 40° over Central England.

WIND

Light to moderate from the E.ly or NE.ly over France, the Netherlands, and the south of England.
Light from the S.ly or SW.ly in the west and north of our Islands generally, but W. in the north of Scotland.
SW. at most of the Scandinavian stations, with a strong gale at Christiansund.

WEATHER

Fine over England and the neighbouring parts of the Continent, as well as on the northeast coasts of Scotland.
Cloudy or dull in most other parts of our area, with rain in the Shetlands and the west of Norway and also in the extreme south of France.
Since yesterday morning a little rain has fallen in the west and south of Ireland and the west and north of Scotland, and larger quantities in Scandinavia and the south of France,—as much as 1·3 in: at Christiansund, and 2·2 in: at Nice. Solar and lunar halos were seen yesterday at some of the English stations.

SEA

Slight or smooth generally but rough at Lerwick Head, and rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 3rd OCTOBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·23	55	50	S	4	o	2
Sumburgh Head	29·93	52	52	SW	3	r	4
Stornoway	30·01	61	59	WSW	3	o	3
Aberdeen	30·09	62	57	S	1	c	2
Shields	30·22	63	56	SW	2	om	2
Ardrossan	30·21	56	55	SSW	4	o	3
Malin Head ...	30·17	61	59	W	3	o	1
Belmullet	30·20	61	60	SSW	3	o	*
Holyhead	30·29	59	55	SW	2	o	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·27	64	63	S	1	o	3
Scilly	30·28	61	58	N	2	bc	1
Jersey	30·24	65	58	N	3	bc	3
Hurst Castle ...	30·25	65	59	E	1	bcm	1
Dungeness ...	30·22	62	59	ENE	4	bc	3
North Foreland	30·27	61	59	NE	4	bc	4
London (Westminster)	30·27	64	54	ENE	2	bc	*
Yarmouth ...	30·27	62	55	NE	3	b	3
Rochefort ...	30·10	68	65	NE	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over England, France, and the Netherlands, but with fog or mist in many places. Cloudy or dull over Ireland, Scotland, and the greater part of the Continent, with rain over Austria and the south of Russia, as well as at Stockholm, Berlin, Rome and Biarritz; fine in Portugal. Slight rain falling later in Ireland and the west and north of Scotland, and much larger quantities in many parts of Scandinavia as well as in the south of France. Solar and lunar halos were seen at some of the English stations.

Temperature fallen several degrees in the eastern and central parts of England, changed unequally elsewhere. Morning readings highest 75° at Malta, 74° at Athens, and 73° at Patras and Constantinople; above 60° over Southern Europe generally, and just touching that point on our own extreme west and southern coasts. Lowest (1) 32° at Archangel, 38° at Riga, and 41° at Moscow; (2) 41° at Loughborough and Cambridge, and 43° at Oxford and in London. Rising during day to 65° or slightly above it in many parts of Great Britain and France; reaching 79° at Lisbon. Ground frost occurring over Central England at night.

Wind light to moderate from the N. or NE. over the south of England, and also over Denmark, Germany, the Netherlands, France, and the Spanish Peninsula. Light from the S. or SW. over Ireland and the northern parts of Great Britain; calm in the west of Norway. E. over the Baltic Provinces and SE. over Finland and the south of Sweden. Calm or variable in Austria; E. in the south of Russia. No important change occurring over Western Europe during day.

Barometer highest 30·4 in. and upwards over northern Russia; 30·2 in. and upwards in an anticyclone lying over the greater part of Sweden and Russia and also in another system extending from the SW. over Ireland, England and the North Sea. Lowest 29·8 in. and less, in a shallow depression lying off the south of France; 30·0 in. and less, in another shallow system off the north of Scotland. No important change occurring over Western Europe during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 3rd October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.56	44	W	2	0	29.68	-.09	40	37	-6	NW	2	b	*	0	*	50	40	0.12
	Hernösand ...	29.73	54	SW	0	b	29.88	+.04	51	46	+5	NW	2	b	*	b	*	54	45	-
	Stockholm ...	29.89	55	SW	2	bc	?	?	57	55	+7	W	2	c	*	bc	*	55	46	-
	Wisby	30.03	55	SSW	4	0	30.01	-.18	55	52	+3	NNW	4	b	*	0	*	55	46	-
	Karlstad ...	29.92	59	WSW	6	0	29.98	-.07	60	55	+9	W	2	c	*	0	*	*	*	-
	Bodö	29.69	47	W	2	c	29.84	+.16	46	44	+1	W	4	c	1	c	*	47	41	0.55
	Christiansund ...	29.88	53	WSW	4	r	30.03	+.30	52	51	-2	W	5	r	4	r	*	54	50	2.01
	Skudesnaes ...	30.16	57	W	6	0	30.23	+.07	57	56	+1	WNW	4	0	2	0	*	57	55	*
	Færder (Christiania Fjord)	29.97	57	SW	3	0	30.06	-.01	57	55	+3	SW	3	c	3	0	*	57	54	-
	Skagen (The Scaw)	30.14	55	W	4	m	30.15	-.03	57	56	+2	W	4	m	1	m	*	61	54	-
	Fanö	30.30	57	WNW	4	0	30.32	+.01	56	55	+3	NW	2	m	*	0	*	63	53	-
	Sumburgh Head	30.03	56	W	7	0	30.14	+.14	56	56	-1	WSW	5	r	6	0	*	59	50	0.02
	Stornoway ...	30.11	59	SW	4	r	30.18	+.10	59	56	-1	W	4	c	4	r	1.2	63	54	0.10
	Wick	30.16	62	W	4	bc	30.23	+.15	60	57	-3	SW	2	b	2	bc	*	70	56	-
	Nairn	30.19	61	WSW	2	bc	?30.25	+.11	61	60	-2	W	1	b	1	bc	*	70	57	-
	Aberdeen ...	30.20	56	NE	1	b	30.29	+.11	54	53	-12	NW	1	bmw	1	b	10.2	71	46	-
BRITISH ISLANDS.	Leith	30.25	62	W	1	0	30.31	+.07	59	57	-2	W	2	0	*	0	*	64	53	-
	Shields	30.30	63	WSW	3	0	30.34	+.04	57	56	+1	SW	1	0	2	0	*	69	54	-
	Spurn Head ...	30.31	58	E	2	b	30.35	+.03	54	53	-1	Z	0	f	1	b, bw	*	65	52	-
	York	30.31	62	SW	1	b	30.37	+.03	47	46	-2	Z	0	b	*	b, f	9.1	71	44	-
	Loughborough ...	30.32	58	WSW	1	b	30.37	+.01	44	44	+2	WNW	1	ofw	*	bcm, bc	*	72	38	-
	Ardrossan ...	30.29	58	WSW	1	0m	30.33	+.06	57	57	-1	SSE	2	om	2	om	*	58	56	0.02
	Malin Head ...	30.25	60	SW	1	c	30.26	+.03	58	56	-1	SSE	3	c	2	c	*	62	56	-
	Belmullet ...	30.26	60	SSW	1	b	?30.26	+.02	58	55	-3	SSW	1	b	*	o, b	*	63	53	-
	Donaghadee ...	30.31	60	SW	2	c	30.33	+.03	58	57	-1	SW	2	c	0	c	*	64	56	0.01
	Liverpool (Bidston)	30.33	57	ENE	1	c	30.36	+.01	49	49	-4	E	1	m	?	cm	*	61	48	-
	Holyhead ...	30.33	59	Z	0	b	30.32	.00	54	53	-4	Z	0	bm	0	b	*	65	52	-
	Parsonstown ...	30.29	61	Z	0	0	30.29	-.01	52	50	-7	Z	0	b	*	0	0.3	64	49	-
	Valencia ...	30.28	61	S	2	b	30.26	-.03	55	52	-5	Z	0	b	2	b	4.2	65	47	-
	Roche's Point ..	30.31	60	SSE	1	b	30.30	-.03	56	55	-3	ESE	3	f	3	b	*	63	50	-
	Pembroke (St. Ann's Hd.)	30.30	59	N	2	b	30.28	-.06	54	53	+1	E	3	bm	2	b	7.7	63	52	-
	Scilly	30.28	61	NE	2	bc	30.22	-.09	58	56	0	E	3	cw	2	bc	9.9	65	55	-
	Prawle Point ..	30.27	56	ENE	3	bc	30.25	-.07	59	56	+1	ENE	5	bc	4	bc	*	64	54	-
	Jersey (St. Aubin's)	30.22	59	NE	4	b	30.21	-.08	63	56	+3	ENE	3	bm	3	b	*	64	53	-
	Hurst Castle ...	30.27	61	NE	2	bm	30.27	-.06	54	53	+2	NE	3	bm	1	bm	*	66	50	-
	Dungeness ...	30.26	58	NE	4	c	30.26	-.06	61	57	+3	ENE	5	b	4	bc.c	*	63	57	-
	North Foreland	30.30	58	NE	4	b	30.31	-.02	61	59	+3	NE	4	b	4	b	*	61	56	-
	London (Brixton) ...	30.29	58	E	1	b	30.31	-.05	48	48	+4	NE	2	bcm	*	bm, bw	3.7	68	42	-
	Oxford	30.33	50	NE	1	b	30.35	-.02	48	46	+5	NNE	2	bw	*	b	*	68	40	-
	Cambridge ...	30.32	57	NNE	1	b	30.37	.00	45	45	+5	N	1	fw	*	b	9.3	68	39	-
	Yarmouth ...	30.31	60	E	2	b	30.33	.00	59	57	+6	NE	3	bw	2	b	*	61	48	-
GERMANY & HOLLAND.	Cuxhaven ...	30.31	55	W	1	b	30.33	.00	57	56	+8	Z	0	m	*	b	*	59	49	-
	Berlin	30.32	51	NW	1	b	30.35	+.07	48	46	-3	WNW	2	b	*	b	*	57	45	-
	Wiesbaden ...	*	*	*	*	*	30.28		52	50		N	1	0	*	*	*	61	50	-
	Munich... ..	30.19	55	NE	5	0	30.23	+.04	53	52	+1	NE	5	0	*	0	*	57	52	-
	The Helder ...	30.32	57	Z	0	b	30.34	.00	57	56	+5	Z	0	m	0	b	*	61	48	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.30	-.02	44	44	-4	ENE	2	f	*	b	*	61	40	-
	Cape Gris Nez...	?	57	E	4	b	?	?	55	51	+5	E	5	b	4	b	*	59	46	-
	Paris	30.19	56	NNE	3	b	30.18	-.03	50	48	+4	NNE	2	m	*	b	*	62	46	-
	Brest	30.24	60	NE	2	b	30.15	-.15	49	48	-3	ENE	2	b	2	b	*	68	46	-
	Lorient.	30.15	61	NNE	4	b	30.16	-.07	50	49	-2	ENE	3	b	3	b	*	70	30	-
FRANCE &	Rochefort ...	30.08	60	E	3	0	30.08	-.03	58	55	+3	E	3	0	*	0	*	64	52	-
	Belfort	30.06	56	ENE	3	0	30.13	+.05	52	51	-3	E	4	m	*	0	*	59	51	-
	Lyons	30.07	55	W	1	0	30.12	+.11	53	53	0	NNW	1	0	*	0	*	61	52	-
	Nice	29.99	58	E	4	c	30.02	+.11	61	55	+.5	E	1	bc	4	c	*	?61	54	.14
	Perpignan ...	30.00	58	NW	3	0	30.04	+.10	56	55	+.1	NW	1	r	*	0	*	60	54	0.32
	Biarritz ...	30.00	58	NNE	3	0	29.97	-.05	55	54	-3	E	2	b	2	0	*	61	54	-
PENINSULA.	Corunna ...																*			
	Lisbon	29.96	67	NNW	3	b	30.01	+.02	63	55	0	NE	3	b	*	b	*	77	59	-
	Azores (P. Delgada)	29.98	69	SW	1	bc	29.90	+.05	71	68	0	Z	0	c	3	bc	*	75	66	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

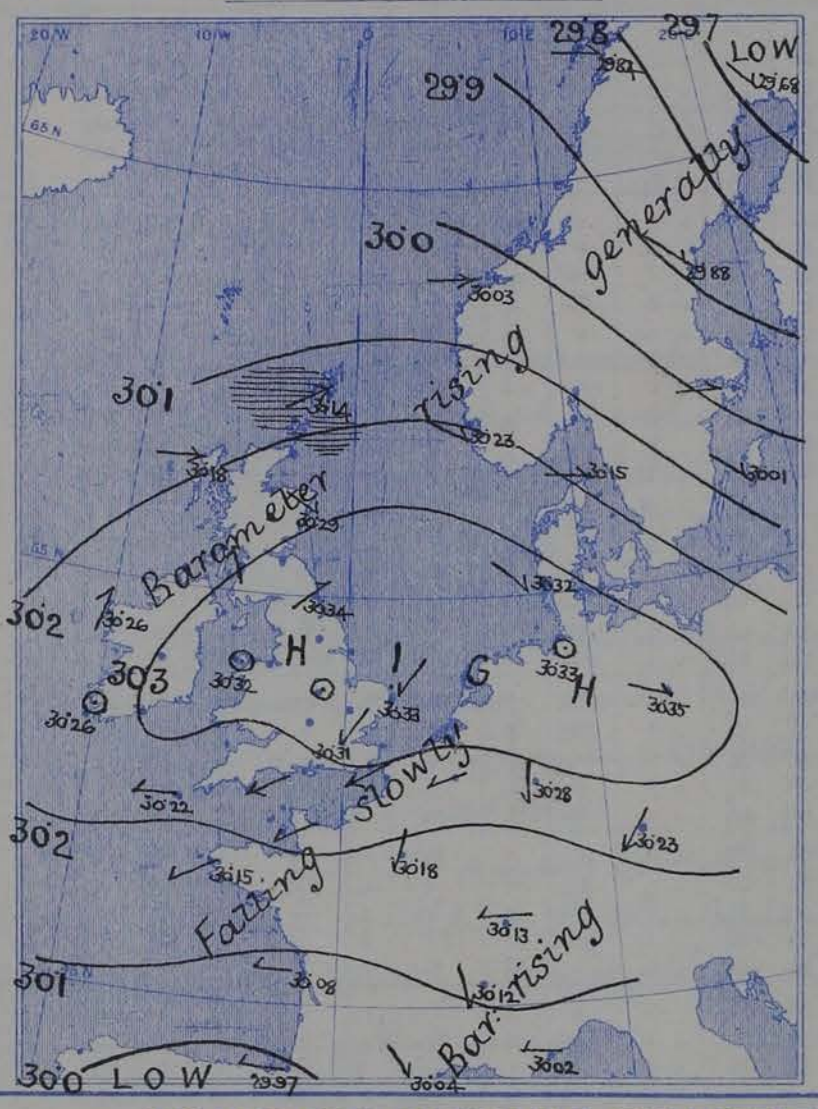
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Monday, 3rd October, 1898

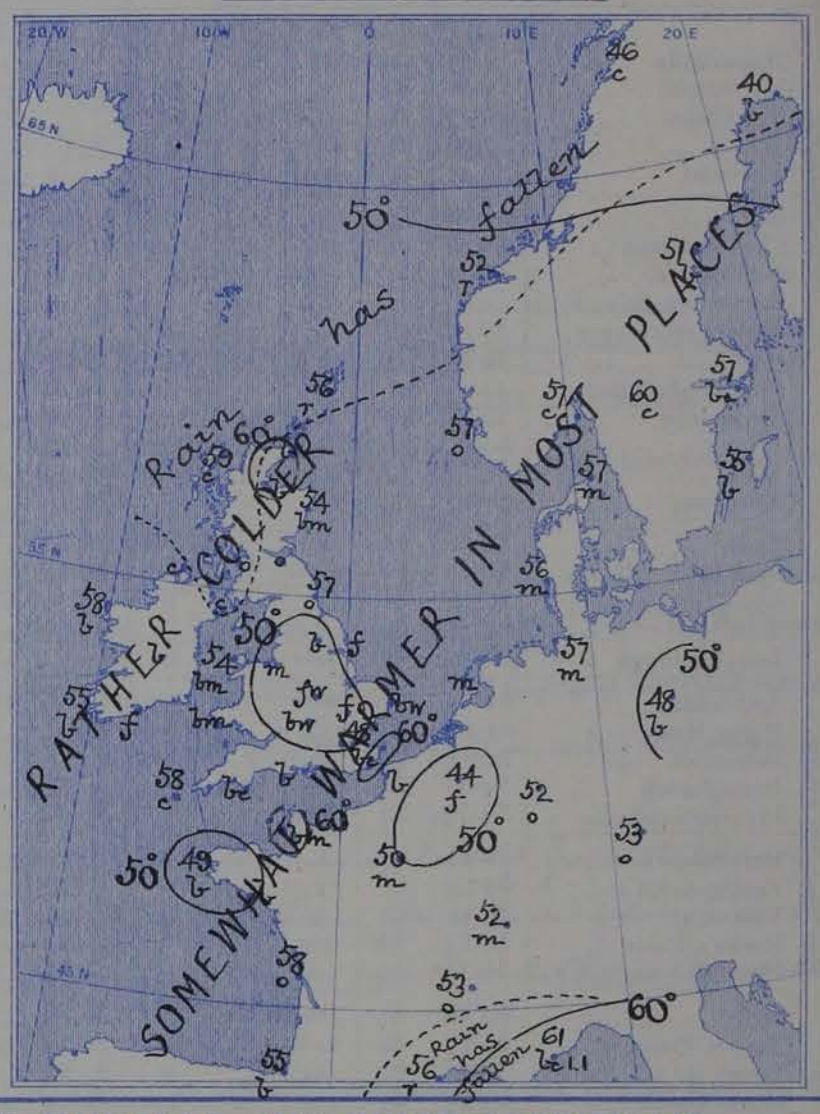
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards over England, the Netherlands, North Germany and the southern parts of the North Sea; 30·1 in: and upwards in an anticyclone covering nearly the whole of Western Europe.

Lowest, 29·7 in: and less, in a depression over Lapland; 30·0 in: and less, over the Spanish Peninsula.

Gradients slight. Barometer falling a little at some of our southern and the French stations, but rising in nearly all other parts of our area.

TEMPERATURE

Highest (1) 61° at Nairn and 60° at Wick; (2) 61° at Dungeness and the North Foreland; (3) 61° at Nice; (4) 60° at Karlstad. (63° at Jersey)

Lowest, (1) 40° at Haparanda and 46° at Bodö; (2) 44° at Loughborough, 45° at Cambridge and 47° at York.

During yesterday the thermometer rose to 65° and upwards in most parts of the United Kingdom, and to 70° or slightly above it at several stations in the northern and central parts of Great Britain.

WIND

E or NE over France and the southern parts of our Islands and Germany, light or moderate in force generally, but fresh at some of the English Channel stations.

Light from the S. or SW. on our northern coasts; moderate to fresh from the W. in Scandinavia and Denmark.

WEATHER

Fine over Western Europe as a whole, but foggy or misty in places. Rain is falling at Lerwick and Christiansund and also at Arbjerran. Slight rain fell yesterday on some parts of our extreme north and northwest coasts, but over our Islands generally, the weather remained very dry. Considerable quantities of rain were reported however, in the west of Norway and the south of France, — as much as 2·0 in. at Christiansund and 1·1 in: at Nice. A lunar halo was seen at Jersey.

SEA

Moderate to smooth generally, but rough at Lerwick Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 4th OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W. and SW. winds, moderate or fresh; fair generally.
1 SCOTLAND EAST	Light Variable breezes; fair generally, but some fog or mist.
2 ENGLAND N.E.	
3 ENGLAND EAST	NE. winds, light or moderate; fair generally, but some mist or fog.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	E. and NE. winds, fresh on coast; fine generally.
6 SCOTLAND WEST	Same as Nos 1 and 2.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as No 5.
9 IRELAND NORTH	S. and SE. winds, light; fine generally.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·18	57	55	WSW	2	0	2
Sumburgh Head							
Stornoway	30·10	63	60	SW	4	a	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·25	62	60	S	3	c	1
Belmullet	30·27	61	60	S	3	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·26	63	57	ENE	4	b	3
Hurst Castle ...							
Dungeness ...	30·28	61	57	ENE	4	bc	3
North Foreland	30·32	60	57	NE	4	b	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·10	64	61	E	3	0	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE, FROM THE 25TH SEPT: TO THE 1ST OCT: 1898.

During this week the changes in pressure were somewhat complex. At the commencement of the time the western and central countries remained under the influence of a large anticyclone, shallow depressions being reported however, over Finland, and over the north of Spain and the south of France. On the 26th a new anticyclone was formed over southeastern Europe, and ultimately united with the older system in the west. Next day, however, the western portion of the combined area gave way entirely under the influence of a V shaped depression which advanced over our Islands from the Atlantic, the latter system occasioning rain in nearly all parts of Western Europe, with freshening winds from the SW and afterwards from the N or NW. The Continental anticyclone now receded to the eastward, while further depressions appeared respectively over northern Russia and over Italy and the neighbouring provinces, so that the weather became generally unsettled, with thunderstorms and heavy rain in many parts of Southern Europe. By the morning of the 29th another anticyclone had appeared over Scandinavia, while a well marked depression had advanced to the west of Ireland, the disturbance moving later eastward and southeastward across Ireland and England to France, where it finally disperced. During its progress heavy rain fell in the west and north of our Islands, and smaller quantities in the east and south, a S gale being experienced in the English Channel, and NW or N gales on many parts of our western coasts. As the depression passed away another anticyclone spread over our Islands from the southwestward, and at the close of the week this was uniting with the Scandinavian system. Fair dry weather was therefore setting in again over all the western and northern countries, with NE winds in the south, but SW breezes in the north.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 4th October. 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.84	42	N	2	b	30.04	+ .36	39	36	− 1	NNW	2	b	*	b	*	50	39	—
	Hernösand ...	30.03	49	NW	4	o	30.24	+ .36	45	41	− 6	WNW	4	b	*	o	*	59	45	—
	Stockholm ...	30.04	54	2	o	o	30.27	+ .34	49	46	− 8	N	2	b	*	o	*	66	49	0.04
	Wisby	30.10	54	SW	4	b	30.25	+ .24	52	51	− 3	NNE	6	b	*	b	*	59	46	—
	Karlstad ...	30.05	60	W	2	bc	30.31	+ .33	50	48	− 10	N	2	f	*	bc	*	*	*	?
	Bodö	30.03	46	W	2	b	30.19	+ .35	44	41	− 2	WSW	4	b	2	b	*	46	43	—
	Christiansund ...	30.17	50	WNW	3	r	30.28	+ .25	53	52	+ 1	W	7	r	5	r	*	54	50	1.50
	Skudesnaes ...	30.35	55	WNW	2	m	30.42	+ .19	53	53	− 4	2	0	f	1	o.m	*	58	52	*
	Færder (Christiania Fjord)	30.12	59	WSW	3	c	30.33	+ .27	57	54	0	WNW	2	b	2	c	*	61	55	—
	Skagen (The Scaw)	30.21	56	W	5	m	30.35	+ .20	58	56	+ 1	NNW	2	b	0	m	*	61	55	—
	Fanö	30.38	56	NW	2	f	30.39	+ .07	56	56	0	NNW	5	o	*	f	*	63	55	—
	Sumburgh Head	30.24	55	WSW	3	c	30.29	+ .15	51	51	− 5	2	0	f	3	o.c	*	57	48	0.01
	Stornoway ...	30.23	59	S	5	o	30.28	+ .10	56	55	− 3	SW	3	b	3	c.o	6.6	63	54	—
	Wick	30.27	65	S	1	b	30.33	+ .10	53	50	− 7	S	1	b	1	b	*	73	47	—
	Nairn	30.27	62	E	1	b	30.34	+ .09	54	54	− 7	2	0	b	1	b	*	71	47	—
	Aberdeen ...	30.30	54	E	1	bw	30.38	+ .09	52	51	− 2	W	1	bmw	1	b.bw	9.6	68	42	—
BRITISH ISLANDS.	Leith	30.31	57	W	2	b	30.39	+ .08	49	49	− 10	W	1	f	*	b	*	61	44	—
	Shields	30.35	56	E	1	m	30.41	+ .07	49	49	− 8	SW	1	f	2	bm.m	*	63	47	—
	Spurn Head ...	30.34	57	E	2	b	30.41	+ .06	57	56	+ 3	ENE	1	o	3	b	*	64	63	—
	York	30.35	62	E	1	b	30.43	+ .06	50	50	+ 3	NNE	1	f	*	b.m	6.7	69	45	—
	Loughborough ...	30.33	60	ENE	1	b	30.40	+ .03	56	55	+ 12	ENE	2	ogm	*	bm.gmd	*	68	44	0.01
	Ardrossan ...	30.31	58	2	o	bm	30.39	+ .06	53	53	− 4	2	0	bfw	0	bm	*	64	49	—
	Malin Head ...	30.25	63	S	1	bw	30.32	+ .06	59	55	+ 1	SSW	3	bm	1	bm	*	66	54	—
	Belmullet ...	30.25	60	SSW	1	b	30.33	+ .07	52	50	− 6	SW	1	b	*	b	*	65	47	—
	Donaghadee ...	30.32	58	SSW	3	b	30.38	+ .05	55	55	− 3	WSW	1	f	0	b	*	62	48	—
	Liverpool (Bidston)	30.32	63	2	o	bc	30.40	+ .04	52	51	+ 3	SE	1	m	?	bc.f	*	67	48	0.01
	Holyhead ...	30.28	60	W	1	f	30.35	+ .03	56	55	+ 2	2	0	b	0	b.f	*	65	53	—
	Parsonstown ...	30.27	58	2	o	b	30.35	+ .06	43	42	− 9	2	0	bw	*	b	9.5	67	40	—
	Valencia ...	30.28	60	SE	1	bm	30.30	+ .04	52	50	− 3	ENE	1	bm	2	bm	9.8	68	46	—
	Roche's Point ..	30.29	59	SE	3	bc	30.35	+ .05	56	55	0	ENE	1	cm	3	bc	*	63	48	—
	Pembroke (St. Ann's Hd.)	30.28	59	SE	1	b	30.33	+ .05	54	53	0	ENE	3	og	2	b	9.5	64	53	—
	Scilly	30.22	59	E	4	c	30.24	+ .02	60	59	+ 2	E	4	cw	2	c	7.7	64	55	—
	Prawle Point ...	30.21	59	ENE	3	bc	30.28	+ .03	57	55	− 2	ENE	5	o	4	bc	*	63	55	—
	Jersey (St. Aubin's)	30.16	61	E	3	b	30.24	+ .03	59	57	− 4	NE	2	om	2	b.og	*	66	54	—
	Hurst Castle ...	30.21	62	NE	3	bm	30.29	+ .02	58	56	+ 4	NE	3	bcm	2	b.bm	*	67	53	—
	Dungeness ...	30.22	61	NE	5	b	30.27	+ .01	59	58	− 2	NE	5	c	4	b	*	64	58	—
	North Foreland	30.29	61	NE	4	b	30.34	+ .03	60	56	− 1	NE	4	c	3	b	*	63	56	—
	London (Brixton) ...	30.29	62	ENE	2	b	30.34	+ .03	59	57	+ 11	ENE	2	og	*	b.o.d	7.2	71	47	—
	Oxford	30.32	56	NE	1	b	30.36	+ .01	57	56	+ 9	NE	1	od	*	b.o	*	69	47	—
	Cambridge ...	30.32	62	E	2	b	30.38	+ .01	58	57	+ 13	E	1	og	*	b.m	6.9	71	43	—
	Yarmouth ...	30.33	61	ENE	3	b	30.37	+ .04	59	57	0	ENE	5	cg	4	b	*	64	56	—
GERMANY & HOLLAND.	Cuxhaven ...	30.34	57	2	o	o	30.38	+ .05	56	55	− 1	2	0	m	*	o	*	59	55	—
	Berlin	30.35	55	NW	3	o	30.36	+ .01	52	52	+ 4	NW	2	f	*	o	*	63	48	—
	Wiesbaden ...	*	*	*	*	*	30.28	.00	54	52	+ 2	2	0	b	*	*	*	63	50	—
	Munich... ..	30.23	53	SE	4	b	30.29	+ .06	51	51	− 2	NE	1	o	*	b	*	64	52	—
	The Helder ...	30.34	59	ENE	1	o	30.37	+ .03	58	56	+ 1	E	2	o	2	o	*	61	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.34	+ .04	50	50	+ 6	NE	4	f	*	b	*	64	44	—
	Cape Gris Nez ...	?	61	E	6	b	?	?	55	54	0	ESE	2	m	2	b	*	63	50	—
	Paris	30.19	57	NE	3	bc	30.23	+ .05	52	52	+ 2	NNE	2	b	*	bc	*	64	48	—
	Brest	30.13	63	E	1	o	30.18	+ .03	57	55	+ 8	E	2	b	1	o	*	66	46	—
	Lorient... ...	30.12	63	2	o	o	30.18	+ .02	55	55	+ 5	E	3	bc	3	o	*	70	50	—
FRANCE &	Rochefort ...	30.04	63	NE	2	c	30.10	+ .02	55	54	− 3	ENE	2	o	*	c	*	75	54	—
	Belfort	30.13	55	E	4	m	30.19	+ .06	52	52	0	E	3	m	*	m	*	61	51	—
	Lyons	30.11	56	E	1	o	30.20	+ .08	53	53	0	SW	1	bw	*	o	*	68	50	—
	Nice	30.07	60	E	4	c	30.13	+ .11	57	53	− 4	E	4	bc	3	c	*	70	54	0.28
	Perpignan ...	30.06	62	NE	1	c	30.12	+ .08	59	59	+ 3	W	1	o	*	c	*	70	56	0.63
	Biarritz ...	30.09	62	NE	3	o	30.02	+ .05	56	54	+ 1	ESE	2	b	2	o	*	66	55	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.02	63	NW	2	b	30.05	+ .04	59	58	− 4	NNE	2	f	*	b	*	75	59	—
	Azores (P. Delgada)	29.89	72	S	4	o	29.85	− .05	69	68	− 2	SSW	4	o	6	o	*	77	66	0.87

For Explanation of Columns, see bottom of last page. *† Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

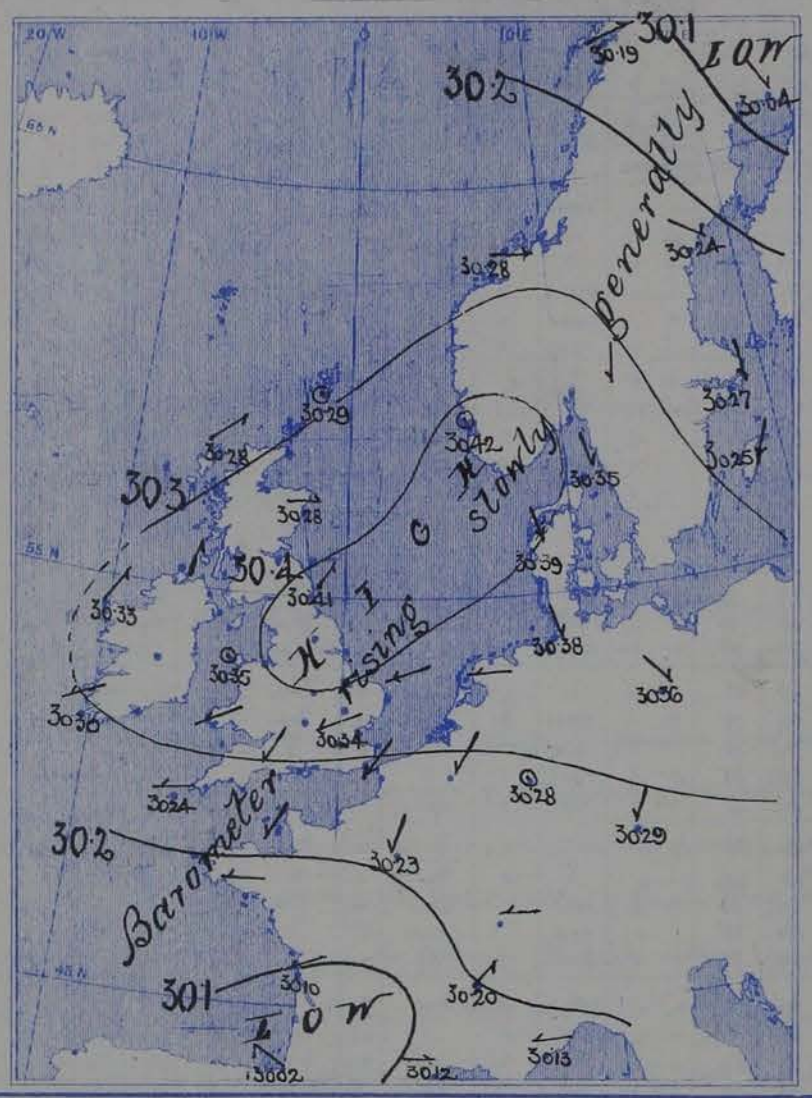
Bright Sunshine yesterday Southport 5·6 hrs;

WEATHER CHARTS

FOR *Tuesday, 4th October,* 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means. 1866–95.	BRIGHT SUNSHINE. Means, 1881–95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51		–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03		–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33		–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6							–
Belmullet	29·846	49·4	46·4	53·9	46·0					5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44		
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valentia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	104·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881–95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.4 ins. and upwards over the N. of England and the greater part of the North Sea; 30.1 ins. and upwards in an anticyclone covering the whole of W^rn and central Europe. Lowest 30.1 ins. and less in Lapland, and also in a shallow depression over the SW. of France. Gradients slight. Barometer rising generally, – slight in our Islands and France, but rather decidedly in Scandinavia.

TEMPERATURE — Highest 60° at Scilly and the North Foreland and 59° in London and at Yarmouth, Jersey, Dungeness and Perpignan. Lowest (1) 39° at Haparanda, 44° at Bodö, and 45° at Hernösand; (2) 43° at Parsonstown, 49° at Leith and Shields. During yesterday the thermometer rose to between 65° and 70° in nearly all parts of the United Kingdom to 71° at Nairn, London and Cambridge, and to 73° at Wick.

WIND — E^ly or NE^ly in the southern parts of our Islands and also over France and the Netherlands; light or moderate in force generally, but fresh at some of the English Channel stations. Light from the SW^wd on our northern coasts; W^ly over the northern parts of Scandinavia, with a moderate gale at Christiansund; NW^ly or N^ly over Denmark, N. Germany and the south of Scandinavia.

WEATHER — Fair or fine over W^rn Europe as a whole, but with fog or mist in many places. Dull and gloomy over the inland parts of England, with drizzling rain at Loughborough; rain was falling also at Christiansund. Slight rain fell yesterday at Sumburgh Hd, but in all other parts of our Island the weather remained very dry. Rain fell, however, in the extreme S. of France and heavily at Christiansund.

SEA — Rather rough at Christiansund, and moderate on exposed parts of our own S. and E. coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 5TH OCTOBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SW^ly winds, light; fair generally, but some mist or fog.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 2.
2 ENGLAND N.E.	Calms or variable airs, fair generally, but some mist or fog.	8 ENGLAND S.W.	Same as No. 3 to 5.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	E^ly and NE^ly winds, light or moderate; fair, warm.	9 IRELAND NORTH	Light breezes chiefly S^ly; fair generally, but some mist or fog.
		10 IRELAND SOUTH	Same as No. 3 to 5.
		WARNINGS	None issued.

Note. The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·31	58	57	NW	2	o	2	Valencia	30·23	67	59	SSE	3	bm	4
Sumburgh Head	30·20	56	55	WSW	4	o	5	Scilly	30·22	63	60	ENE	3	c	2
Stornoway	30·22	63	59	SW	4	c	4	Jersey	30·19	65	59	NE	4	b	3
Aberdeen	30·30	67	61	E	1	b	1	Hurst Castle ...	30·24	67	62	ENE	2	b	2
Shields	30·34	60	58	E	1	bm	2	Dungeness ...	30·23	63	59	ENE	5	b	4
Ardrossan	30·31	63	61	E	o	bm	1	North Foreland	30·20	62	56	NE	4	b	4
Malin Head ...	30·25	66	60	SSW	3	b	1	London (Westminster)	30·29	68	56	ENE	3	b	*
Belmullet	30·25	65	58	SSW	1	b	*	Yarmouth ..	30·33	63	60	NE	2	b	2
Holyhead	30·30	63	61	NE	1	b	o	Rochefort ...	30·06	71	67	NE	2	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over W^rn Europe as a whole, but foggy or misty in places. Fine also in Sweden and in Greece, but cloudy over the N^rn, E^rn and S^rn countries generally, with rain in the S. of France as well as at Christiansund, Nenjakwasser, Moscow and Lemberg. No important change occurring over W^rn Europe during day, but heavy rain falling at Christiansund.

Temperature fallen in the W. and N. of our Islands, as well as in Germany and Austria, risen in most other regions. Morning readings highest 78° at Athens, 75° at Patras and Malta, and 72° Palermo; above 60° in most parts of S^rn Europe, as well as on the SE. coasts of England and the NE. coasts of Scotland. Lowest (1) 38° at Archangel, 40° at Haparanda and Kharkov, and 42° at Moscow; (2) 44° at Loughborough, and 45° at Cambridge. Rising during day to between 65° and 70° over nearly the whole of our Islands and France, to 71° at Nairn, London and Cambridge, and to 73° at Wick.

Wind E^ly or NE^ly over the south and east of England, France and nearly the whole of S^rn Europe; light or moderate in force generally, but fresh at some of the English Channel stations. Light from the Sth or SW^rd in the northern parts of our Islands; moderate to fresh from the W^rd or NW^rd over Finland, Scandinavia, Denmark, N. Germany and the Baltic; calm or variable over Austria and the south of Russia. No important change occurring during day.

Barometer highest 30·3 ins. and upwards over England, the Netherlands, N. Germany and the S^rn parts of the North Sea; 30·1 ins. and upwards in an anticyclone embracing the whole of W^rn and central and the greater part of S^rn Europe. Lowest 29·6 ins. and less in a shallow depression over the extreme N. of Russia. No important change occurring later, but another shallow depression appearing in evening over the Spanish peninsula.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 5th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·10	37	2	0	bc	29·82	−·22	44	43	+5	SW	2	0	*	bc	*	48	30	—
	Hernösand ...	30·19	46	N	2	r	30·03	−·21	52	49	+7	W	4	0	*	r	*	55	37	0·08
	Stockholm ...	30·31	50	2	0	0	30·13	−·14	53	51	+4	W	2	0	*	0	*	55	46	—
	Wisby	30·39	48	N	4	b	30·17	−·08	55	53	+3	NNW	6	bc	*	b	*	55	46	—
	Karlstad ..	30·29	55	SW	2	b	30·23	−·08	54	50	+4	W	2	0	*	b	*	*	*	—
	Bodö	29·88	45	ESE	2	r	29·82	−·37	46	44	+2	W	6	r	4	r	*	46	41	0·87
	Christiansund ...	30·20	55	W	6	r	30·33	+·05	50	48	−3	WNW	9	r	6	r	*	55	50	?
	Skudesnaes ...	30·44	55	2	0	m	30·46	+·04	54	54	+1	2	0	f	1	f.m	*	55	52	*
	Færder (Christiania Fjord)	30·29	57	SW	4	c	30·29	−·04	56	53	−1	WSW	2	0	2	c	*	59	55	—
	Skagen (The Scaw)	30·35	55	WSW	2	bc	30·32	−·03	57	54	−1	WNW	2	m	0	bc	*	61	54	—
	Fanö	30·44	55	SW	2	f	30·44	+·05	53	52	−3	2	0	f	*	f	*	66	52	—
BRITISH ISLANDS.	Sumburgh Head	30·33	56	W	3	0	30·39	+·10	52	52	+1	SE	1	f	3	0	*	61	51	—
	Stornoway ...	30·33	60	S	2	b	30·30	+·02	48	47	−8	2	0	f	0	b	8·6	65	44	—
	Wick	30·37	60	S	1	b	30·36	+·03	55	52	+2	2	0	b	1	b	*	71	40	—
	Nairn	30·36	60	E	1	m	30·37	+·03	46	46	−8	2	0	f	0	m	*	72	41	—
	Aberdeen ...	30·40	54	ENE	1	b	30·41	+·03	47	47	−5	S	1	0.fw	1	b	9·0	69	40	0·01
	Leith	30·37	58	WSW	1	b	30·39	·00	52	52	+3	N	1	fd	*	b	*	70	44	—
	Shields	30·43	55	SE	3	m	30·40	−·01	54	54	+5	E	2	od	2	bm.m	*	64	47	—
	Spurn Head ...	30·40	58	ENE	3	0	30·34	−·07	57	56	0	NE	4	0	4	o.d	*	59	55	0·01
	York	30·41	58	ENE	1	0	30·38	−·05	55	53	+5	NE	1	o	*	o	0·0	60	49	—
	Loughborough ...	30·39	58	ENE	3	0	30·33	−·07	56	55	0	NE	2	ogm	*	ogm.dp	*	61	55	0·02
	Ardrossan ...	30·34	63	NNE	1	bf	30·32	−·07	58	50	+5	NNE	4	bf	1	bf	*	65	52	—
	Malin Head ...	30·32	64	ESE	2	bm	30·26	−·06	59	55	−2	SSE	3	bm	1	bm	*	65	55	—
	Belmullet ...	30·29	64	ENE	1	b	30·25	−·08	57	54	+5	NE	1	b	*	b	*	70	51	—
	Donaghadee ...	30·36	58	NNW	2	f	30·32	−·06	55	55	0	SE	2	m	0	m.f	*	66	46	—
	Liverpool (Bidston)	30·37	59	SE	1	bm	30·33	−·07	55	53	+3	E	1	0	?	bm	*	62	52	—
	Holyhead ...	30·31	59	WSW	1	bm	30·27	−·08	56	55	0	W	2	bm	1	b.bm	*	67	51	—
	Parsonstown ...	30·28	65	2	0	b	30·25	−·10	55	54	+12	2	0	0	*	b	8·9	69	42	—
	Valencia ...	30·25	62	E	1	bm	30·17	−·13	61	56	+9	E	2	ogm	3	bm	9·6	69	51	—
	Roche's Point ..	30·31	58	SE	3	c	30·22	−·13	58	57	+2	ESE	4	m	4	c	*	63	55	—
	Pembroke (St. Ann's Hd.)	30·30	60	SE	4	0	30·24	−·09	57	56	+3	ENE	4	c	2	0	2·2	61	54	—
	Scilly	30·22	60	ENE	4	om	30·12	−·12	59	57	−1	E	4	0	2	c.om	2·2	63	57	—
	Prawle Point ...	30·24	58	ENE	4	0	30·17	−·11	58	57	+1	ENE	6	orm	5	o.rm	*	61	57	0·03
	Jersey (St. Aubin's)	30·21	60	NE	3	ogm	30·15	−·09	61	59	+2	E	3	bm	3	om.gm	*	64	58	—
	Hurst Castle ...	30·25	62	ENE	2	bm	30·21	−·08	60	58	+2	ENE	4	0	2	bm	*	66	53	—
	Dungeness ...	30·25	60	NE	5	c	30·22	−·05	58	57	−1	NE	4	0	4	c	*	61	58	—
GERMANY & HOLLAND.	North Foreland	30·32	60	NE	4	0	30·26	−·08	58	56	−2	ENE	3	op	3	0	*	61	57	—
	London (Brixton) ...	30·32	60	E	2	0	30·27	−·07	58	57	−1	E	1	ogm	*	og	0·0	62	58	—
	Oxford	30·34	58	NE	3	0	30·28	−·08	56	56	−1	NE	2	od	*	o	*	61	56	—
	Cambridge ...	30·36	59	ENE	2	0	30·30	−·08	56	56	−2	E	3	d	*	o	0·0	63	55	0·01
	Yarmouth ...	30·35	59	ENE	4	cg	30·31	−·06	57	56	−2	E	5	cgd	4	cmg	*	60	55	0·02
	Cuxhaven ...	30·39	57	N	1	c	30·40	+·02	54	53	−2	E	1	o	*	c	*	59	54	—
	Berlin	30·39	57	NNE	2	o	30·41	+·05	56	55	+4	ESE	1	r	*	o	*	57	52	—
	Wiesbaden ...	*	*	*	*	*	30·30	+·02	51	50	−3	NE	1	b	*	*	*	66	50	—
	Munich... ..	30·30	54	SE	2	b	30·31	+·02	54	54	+3	NE	1	o	*	b	*	66	48	0·04
	The Helder ...	30·38	57	ENE	3	0	30·34	−·03	55	54	−3	E	2	o	3	o	*	59	55	—
	Brussels ...	*	*	*	*	*	30·29	−·05	53	52	+3	NE	1	f	*	c	*	68	50	—
	Cape Gris Nez...	?	60	E	5	m	?	?	55	54	0	E	3	m	2	m	*	61	52	—
	Paris	30·23	57	NNE	2	bc	30·19	−·04	53	52	+1	NE	1	b	*	bc	*	59	52	—
	Brest	30·16	62	E	1	b	30·10	−·08	57	55	0	E	1	c	1	b	*	72	52	—
	Lorient... ...	30·15	61	NE	4	m	30·10	−·08	55	54	0	E	3	m	3	m	*	75	52	—
FRANCE & BELGIUM.	Rochefort ...	30·07	68	NE	2	c	30·04	−·06	57	56	+2	E	2	bc	*	c	*	79	54	—
	Belfort	30·20	56	E	4	m	30·21	+·02	50	50	−2	ENE	3	f	*	m	*	64	48	—
	Lyons ...	30·18	60	NNW	1	b	30·20	·00	53	53	0	S	1	f	*	b	*	66	52	—
	Nice	30·14	65	E	5	bc	30·15	+·02	63	56	+6	ENE	6	c	4	bc	*	72	57	0·04
	Perpignan ...	29·96	63	NE	5	r	30·10	−·02	56	56	−3	2	0	c	*	r	*	66	54	1·50
	Biarritz ...	30·00	68	ENE	2	bc	29·98	−·04	58	56	+2	ESE	2	c	2	bc	*	73	55	—
PENINSULA.	Corunna ...																*			
	Lisbon	30·04	62	2	0	b	30·06	+·01	61	60	+2	2	0	c	*	b	*	70	59	—
	Azores (P. Delgada)	29·80	70	SW	4	bc	29·78	−·07	68	63	−1	W	2	c	4	bc	*	77	64	0·2

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

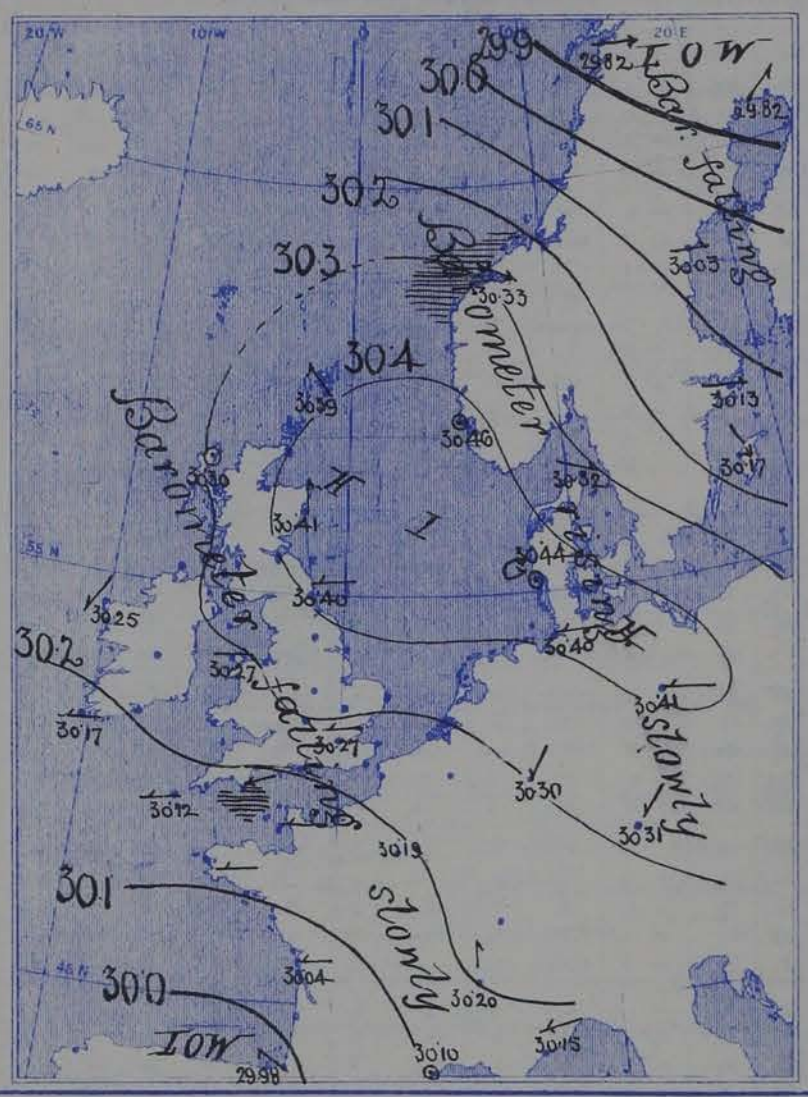
Bright Sunshine yesterday Southport 3·7 hrs;

WEATHER CHARTS

FOR Wednesday, 5th October, 1898

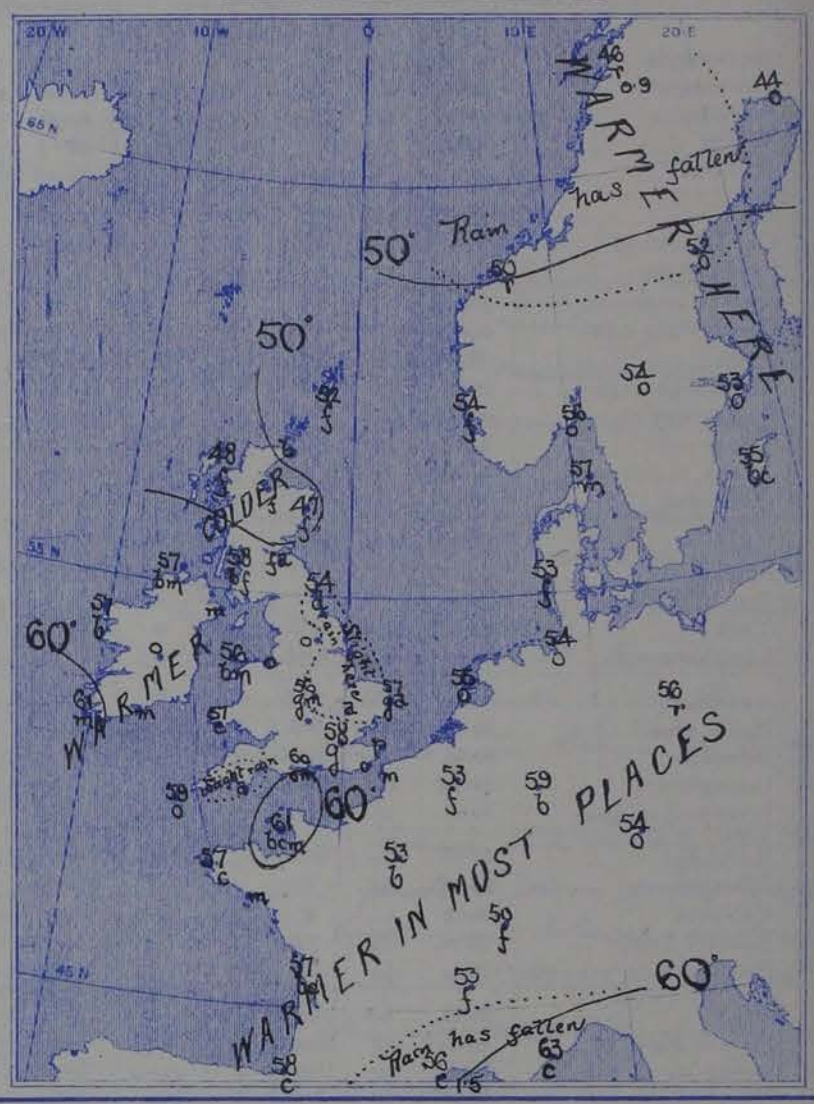
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years	Minimum.	Years	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31		–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51		–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	34
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33		–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82		–
Malin Head	29·798	48·2	46·1	52·4	45·6		–	–				–
Belmullet	29·846	49·4	46·4	53·9	46·0		–			5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44		–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881 95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins: and upwards over the North Sea, the south of Denmark and North Germany; 30.1 ins: and upwards in an anticyclone covering nearly the whole of Western and Central Europe.
Lowest 29.9 ins: and less in a depression over the north of Scandinavia, 30.0 ins: and less in a shallow system over the Spanish Peninsula.
Gradients slight generally, but moderate over the northern parts of the Norwegian coast.
Barometer rising over Germany and the eastern shores of the North Sea; falling elsewhere, — slightly in our Islands and France, but briskly in the north of Scandinavia.

TEMPERATURE

Highest (1) 63° at Nice, 61° at Lisbon, (2) 61° at Valencia (Ireland) and Jersey, 60° at Hurst Castle, and 59° at Scilly & Wiesbaden.
Lowest (1) 44° at Haparanda and 46° at Bodö, (2) 46° at Nairn, 47° at Aberdeen, and 48° at Stornoway.
During yesterday the thermometer again rose to 70° or slightly above it in several parts of Scotland. Over the greater part of England the daily maxima were very little above 60°.

WIND

Light to moderate from the Eastward or Northeastward over England, Ireland, France, Germany & the Netherlands.
Calm or Southerly in the north of Scotland; Westerly or Northwesterly in Scandinavia, and strong in places with a gale at Christiansund.

WEATHER

Cloudy over Northwestern Europe as a whole, with mist or fog in many places, especially in Scotland, and slight drizzling rain at some of the English stations. Rain was falling also in the west of Norway and at Berlin.
Fine over the greater part of France.
At some of the English stations slight amounts of water have been deposited in the gauge by wet mists, but over our Islands generally the weather has remained very dry. Heavy rain has again fallen in some parts of the west of Norway and the south of France.

SEA

Rough at Christiansund, and rather rough at Pointe Point, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is inclined to move away to the eastward, but there are at present no signs of any very material change in the weather.

FORECASTS

For the 24 hours ending at NOON on OCTOBER 6TH 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Calms or light Southeasterly airs; fair generally, but with fog in many places.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	Easterly and Northeasterly winds moderate; cloudy with slight misty rain in places.
6 SCOTLAND WEST	Easterly and Northeasterly winds light, fair generally, but local fogs.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as No. 5.
9 IRELAND NORTH	Easterly and Southeasterly winds light or moderate, fair generally but some mist or fog.
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note. The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·44	55	54	NW	2	f	2
Sumburgh Head	30·31	59	56	W	5	c	4
Stornoway	30·33	65	60	WSW	3	b	3
Aberdeen	30·39	64	59	E	1	b	1
Shields	30·41	63	59	E	1	b	1
Ardrossan	30·37	65	63	NNE	1	bf	0
Malin Head ...	30·34	65	61	E	1	bc	0
Belmullet	30·34	69	61	ENE	1	b	*
Holyhead	30·32	66	61	E	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·27	69	61	2	0	bm	2
Scilly	30·24	68	60	E	4	c	2
Jersey	30·22	62	59	ENE	3	cm	3
Hurst Castle ...	30·27	66	63	ENE	2	bm	2
Dungeness ...	30·27	60	58	ENE	5	c	4
North Foreland	30·33	60	58	NE	4	c	4
London (Westminster)	30·32	63	59	ENE	3	og	*
Yarmouth ...	30·37	60	58	ENE	4	cgm	4
Rochefort ...	30·11	73	67	NNW	2	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over Western and Northern Europe as a whole, but with fog or mist in many places; dull and gloomy over the inland parts of England, with drizzling rain at Loughborough. Foggy at many of the German stations, and dull in the south of Russia, with rain at Kiev; fine in most parts of Italy and Austria, but rain falling at Rome. Slight amounts of rain measured later at several of the English stations, and larger quantities in the west of Norway and the extreme south of France, — as much as 1.5 ins. at Perpignan.

Temperature rises quickly over England, falls in Ireland and Scotland and also in Sweden and northern Russia, changed irregularly elsewhere. Morning readings highest 75° at Brindisi, Palermo and Malta, and 71° at Algiers, above 65° at several of the Mediterranean and Adriatic stations. Lowest (1) 37° at Archangel, and 39° at Haparanda and Kuopio, (2) 43° at Parsonstown. Daily maxima over England very little above 60°, but thermometer rising to 70° or slightly above it in many parts of Scotland; exceeding 70° also in the west and south of France and touching 75° at Lorient.

Wind Easterly to Northeasterly over the southern parts of our Islands, as well as over the Netherlands, France and the Spanish Peninsula, light or moderate in force generally, but fresh at some of the English Channel stations. Light from the Southward or Southwestward over the northern parts of our Islands. Moderate to strong from the Westward or Northwestward over the northern parts of Scandinavia, and from the Northwestward or Northward over Sweden, Russia, Denmark, and eastern Germany as well as in Italy, and calm or variable in Austria. No important change occurring during day.

Barometer Highest 30.4 ins. and upwards over the North of England and the central parts of the North Sea, 30.1 ins. and upwards in an anticyclone embracing all but the northeastern and southwestern parts of Europe. Lowest 29.6 ins. and less in a large depression over Northern Russia. Scarcely any change occurring over Western Europe later, but shallow depression appearing over the north of Spain in evening.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 6th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29·76	42	2	0	0	29·97	+ ·15	41	39	− 3	NNE	4	c	*	0	*	50	34	—
	Hernösand ...	30·08	48	NW	6	0	30·12	+ ·09	46	40	− 6	NW	8	b	*	0	*	55	43	—
	Stockholm ...	30·12	55	W	4	c	30·13	·00	46	41	− 7	NW	8	b	*	c	*	63	48	—
	Wisby	30·15	55	NNW	4	b	30·14	− ·03	49	44	− 6	N	8	c	*	b	*	55	45	—
	Karlstad ...	30·21	51	WNW	1	bc	30·25	+ ·02	46	43	− 8	N	2	b	*	bc	*	*	*	—
	Bodö	30·06	45	W	6	0	30·19	+ ·37	44	41	− 2	W	5	0	3	0	*	46	41	0·51
	Christiansund ...	30·35	50	WNW	4	0	30·38	+ ·05	50	49	0	WNW	1	f	4	0	*	52	48	—
	Skudesnaes ...	30·39	53	NNW	2	b	30·34	− ·12	49	48	− 5	N	2	f	1	b	*	59	48	*
	Færder (Christiania Fjord)	30·25	58	W	1	b	30·28	− ·01	53	49	− 3	ENE	2	bc	1	b	*	61	52	—
	Skagen (The Scaw)	30·26	51	NW	1	b	30·26	− ·06	54	52	− 3	ENE	2	b	0	b	*	63	50	—
	Fanö	30·34	54	NNW	2	0	30·21	− ·23	52	51	− 1	2	0	b	*	0	*	57	50	—
BRITISH ISLANDS.	Sumburgh Head	30·33	51	NE	1	f	30·19	− ·20	49	49	− 3	2	0	f	2	m, f	+	58	47	0·01
	Stornoway ...	30·23	60	2	0	b	30·17	− ·13	50	49	+ 2	2	0	b	0	b	8·8	70	45	—
	Wick	30·33	60	S	1	b	30·26	− ·10	54	52	− 1	W	3	bc	1	b	*	67	50	—
	Nairn	30·29	54	2	0	f	30·25	− ·12	45	45	− 1	WSW	1	f	0	f	*	64	39	—
	Aberdeen ...	30·26	52	SSE	2	ogm	30·30	− ·11	53	50	+ 6	SSE	2	c	1	bm, ogm	5·4	60	46	—
	Leith	30·30	55	E	3	m	30·26	− ·13	55	53	+ 3	E	4	0	*	m	*	58	51	—
	Shields	30·33	53	E	3	od	30·25	− ·15	54	53	0	E	3	0	3	odp	*	55	52	0·01
	Spurn Head ...	30·25	57	E	3	0	30·18	− ·16	57	55	0	E	4	odp	4	odp	*	58	55	—
	York	30·29	58	ENE	2	0	30·22	− ·16	56	55	+ 1	E	1	f	*	0	0·2	60	53	0·04
	Loughborough ...	30·25	57	ENE	2	0	30·18	− ·15	55	54	− 1	ENE	2	ogm	*	ogm, dp	*	59	54	0·02
	Ardrossan ...	30·24	55	NNE	3	bf	30·21	− ·11	55	53	− 3	NNE	2	om	1	bf	*	65	54	—
	Malin Head ...	30·18	58	SSE	3	bm	30·11	− ·15	56	54	− 1	ESE	4	cm	3	bm	*	65	54	—
	Belmullet ...	30·15	59	SE	3	0	30·03	− ·22	58	56	+ 1	SE	2	b	*	0	*	64	*	—
	Donaghadee ...	30·24	57	SSE	3	bc	30·15	− ·17	58	56	+ 3	SE	5	c	3	bc	*	59	53	—
	Liverpool (Bidston)	30·22	59	E	2	0	30·15	− ·18	56	53	+ 1	E	3	0	?	om	*	60	54	—
	Holyhead ...	30·18	58	E	2	cm	30·09	− ·18	56	54	0	ENE	2	b	1	b, cm	*	62	53	—
	Parsonstown ...	30·15	58	2	0	0	30·04	− ·21	58	55	+ 3	SE	1	0	*	d, 0	2·1	61	54	—
	Valencia ...	30·05	61	E	4	og	29·91	− ·26	60	59	− 1	ESE	5	ogm	4	og	0·0	62	59	—
	Roche's Point ..	30·11	59	ESE	5	om	30·00	− ·22	60	58	+ 2	SE	5	om	4	om	*	60	58	—
	Pembroke (St. Ann's Hd.)	30·13	59	E	3	0	30·04	− ·20	57	56	0	E	4	og	3	0	0·0	60	56	—
	Scilly	30·05	59	E	2	om	29·94	− ·18	60	59	+ 1	E	5	m	2	om	4·0	63	57	0·03
	Prawle Point ...	30·10	58	ENE	5	c	30·02	− ·15	60	59	+ 2	E	5	0	4	c, od	*	62	57	0·01
	Jersey (St. Aubin's)	30·06	65	NE	3	bm	30·03	− ·12	62	59	+ 1	E	2	bm	2	bm, r	*	69	54	—
	Hurst Castle ...	30·13	60	E	3	bm	30·07	− ·14	59	58	− 1	ENE	3	om	2	om, bm	*	62	57	—
	Dungeness ...	30·15	59	ENE	4	0	30·09	− ·13	57	57	− 1	ENE	4	cw	3	m, 0	*	60	57	—
	North Foreland	30·19	60	ENE	4	0	30·13	− ·13	58	57	0	ENE	4	0	3	0	*	60	57	—
	London (Brixton) ...	30·20	58	E	1	og	30·13	− ·14	59	57	+ 1	E	2	og	*	og	0·0	60	57	—
	Oxford	30·20	58	E	2	0	30·13	− ·15	58	56	+ 2	E	1	odp	*	odp	*	61	55	—
	Cambridge ...	30·23	58	E	1	0	30·16	− ·14	57	56	+ 1	NE	1	omg	*	0	0·0	61	55	0·01
	Yarmouth ...	30·22	57	ENE	4	og	30·16	− ·15	56	55	− 1	E	4	cg	4	cg, og	*	58	55	—
GERMANY & HOLLAND.	Cuxhaven ...	30·32	55	N	1	0	30·21	− ·19	52	52	− 2	N	1	m	*	0, m	*	57	50	—
	Berlin	30·32	55	SE	1	bc	30·21	− ·20	52	51	− 4	W	2	0	*	bc	*	59	50	—
	Wiesbaden ...	*	*	*	*	*	?	?	55	52	+ 4	NE	2	0	*	*	*	61	45	—
	Munich... ..	30·26	51	2	0	b	30·18	− ·13	51	51	− 3	E	1	0	*	b	*	57	45	0·04
	The Helder ...																*			
BELGIUM.	Brussels ...	*	*	*	*	*	30·14	− ·15	46	46	− 7	NE	2	f	*	b	*	67	44	—
	Cape Gris Nez...	?	59	E	1	m	?	?	54	53	− 1	E	1	m	1	m	*	61	50	—
	Paris	30·13	62	ENE	2	bc	30·07	− ·12	48	48	− 5	NE	2	m	*	bc	*	73	47	—
	Brest	30·01	65	NE	1	b	29·97	− ·13	59	59	+ 2	SE	2	c	2	b	*	73	52	0·08
	Lorient... ...	30·00	66	2	0	r	29·99	− ·11	57	57	+ 2	E	3	m	2	r	*	77	55	0·32
FRANCE &	Rochefort ...	30·01	62	SE	1	b	30·03	− ·01	57	56	0	S	3	bc	*	b	*	77	54	0·24
	Belfort	30·16	58	ENE	4	m	30·09	− ·12	51	51	+ 1	ENE	3	f	*	m	*	68	49	—
	Lyons	30·14	62	WSW	1	0	30·12	− ·08	54	53	+ 1	S	1	0	*	0, 2	*	66	53	0·24
	Nice	30·12	68	E	2	c	30·07	− ·08	66	60	+ 3	E	2	c	3	c	*	77	63	—
	Perpignan ...	30·05	64	2	0	b	30·07	− ·03	60	59	+ 4	NE	2	0	*	b	*	72	55	—
	Biarritz ...	29·97	68	E	3	bc	29·97	− ·01	64	57	+ 6	S	4	b	1	bc, 2	*	75	58	—
PENIN-SULA.	Corunna ...																*			
	Lisbon	30·06	64	SSW	2	b	30·08	+ ·02	63	61	+ 2	2	0	c	*	b	*	70	61	—
	Azores (P. Delgada)	29·92	67	WNW	2	c	29·92	+ ·14	67	61	− 1	WSW	1	c	3	c	*	73	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1·3 hrs.

WEATHER CHARTS

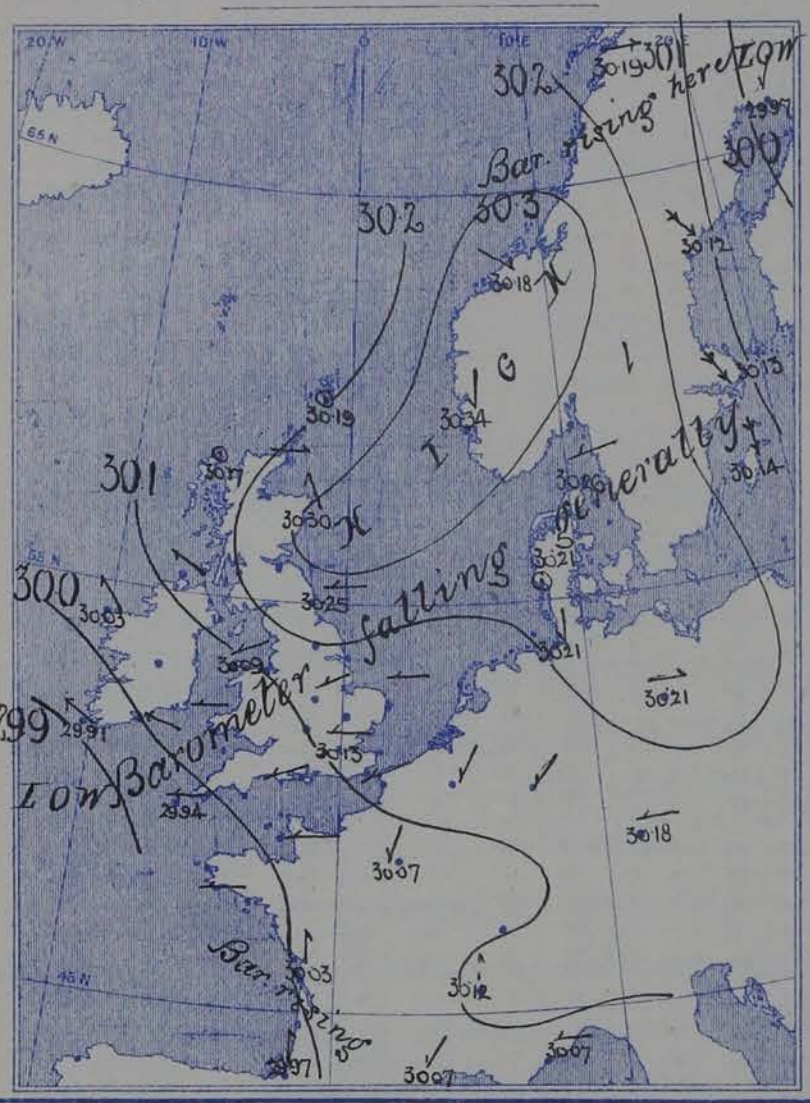
FOR Thursday, 6th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

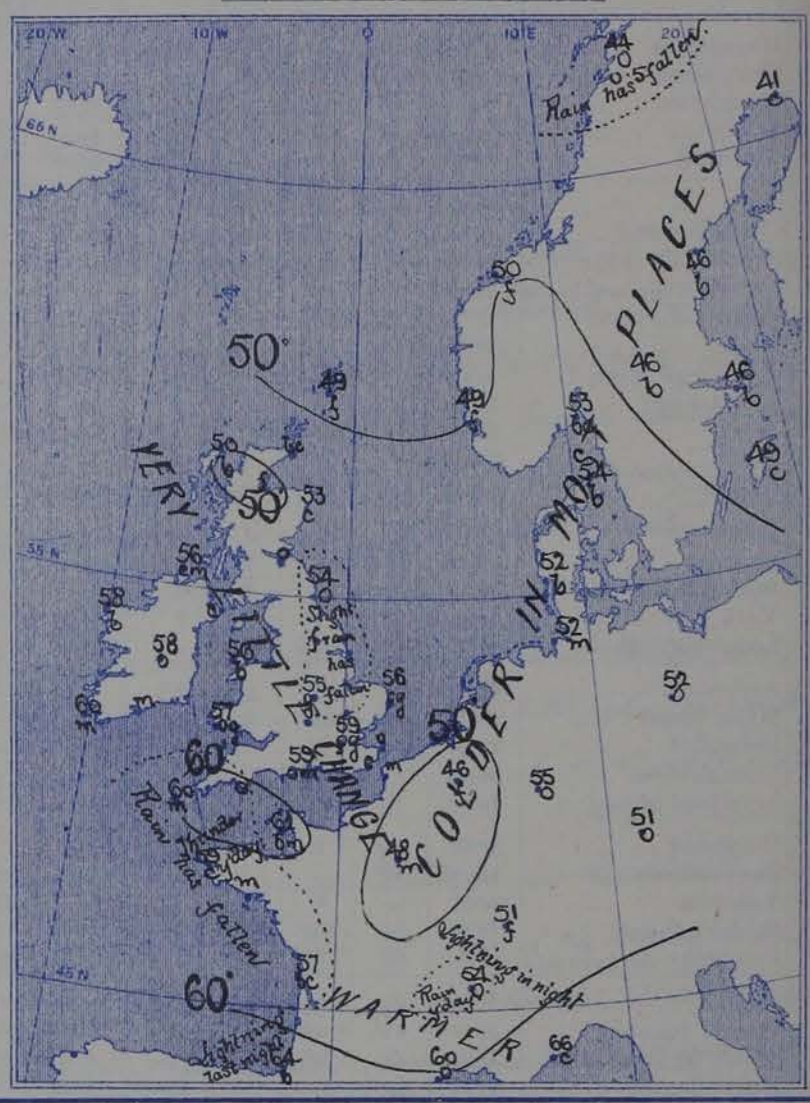
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 712	45 · 9	44 · 2	49 · 7	41 · 6	60	1882	26	1875	4 · 31	—	—
Stornoway	29 · 743	45 · 4	44 · 3	50 · 8	40 · 3	67	1895	26	1880	5 · 15	84 · 1	27
Wick	29 · 747	46 · 1	44 · 5	51 · 6	40 · 4	64	1883, 94	22	1885	3 · 14	—	—
Nairn	29 · 763	44 · 5	42 · 6	51 · 9	40 · 0	69	1895	20	1885	2 · 51	—	—
Aberdeen	29 · 779	45 · 4	43 · 4	52 · 3	41 · 1	74	1883	25	1880	3 · 05	97 · 5	31
Leith	29 · 805	46 · 4	44 · 5	54 · 5	41 · 4	69	1882	25	1894	2 · 03	—	—
Shields	29 · 826	46 · 9	45 · 1	53 · 2	42 · 2	67	1875, 76, 82, 90	27	1890, 92, 95	2 · 58	—	—
Spurn Head	29 · 847	48 · 8	47 · 3	53 · 3	45 · 5	66*	1882, 90, 95	33*	1887, 95	2 · 33	—	—
York	29 · 862	45 · 6	44 · 2	54 · 4	41 · 0	70	1883, 95	24	1880, 95	2 · 74	87 · 3	27
Loughborough	29 · 886	45 · 6	44 · 3	55 · 6	40 · 9	77*	1886	20*	1890	2 · 83	—	—
Ardrossan	29 · 813	47 · 6	45 · 7	53 · 5	43 · 4	67	1895	26	1880	3 · 82	—	—
Malin Head	29 · 798	48 · 2	46 · 1	52 · 4	45 · 6	—	—	—	—	—	—	—
Belmullet	29 · 846	49 · 4	46 · 4	53 · 9	46 · 0	—	—	—	—	5 · 18	—	—
Donaghadee	29 · 834	47 · 6	46 · 3	53 · 6	43 · 3	65	1895	21	1892	3 · 22	—	—
Holyhead	29 · 854	50 · 1	48 · 0	54 · 6	47 · 0	71	1886	32	1892	4 · 44	—	—
Liverpool	29 · 862	47 · 6	45 · 5	53 · 7	44 · 5	72	1886	27	1895	3 · 58	—	—
Parsonstown	29 · 877	45 · 5	43 · 9	54 · 6	40 · 4	68	1873	22	1880	3 · 12	97 · 1	30
Valencia	29 · 879	51 · 0	48 · 8	56 · 3	46 · 3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5 · 57	104 · 2	32
Roche's Point	29 · 876	49 · 9	48 · 1	55 · 7	45 · 8	65	1880, 84, 86	32	1881	4 · 16	—	—
Pembroke	29 · 871	51 · 0	49 · 1	54 · 7	47 · 8	66	1872, 86	33	1895	4 · 11	103 · 4	32
Scilly	29 · 892	53 · 6	51 · 5	56 · 6	50 · 0	69	1895	38	1895	3 · 77	—	—
Prawle Point	29 · 910	51 · 0	49 · 4	56 · 5	46 · 1	68*	1882	29*	1887	3 · 78	—	—
Jersey	29 · 913	53 · 3	50 · 6	58 · 3	48 · 7	73	1876	33	1887	4 · 70	127 · 4	39
Hurst Castle	29 · 906	50 · 7	49 · 1	57 · 1	45 · 8	72	1874	27	1887	3 · 60	—	—
Dover	29 · 898	50 · 2	48 · 4	56 · 3	46 · 1	70	1886	23	1890	3 · 43	—	—
LONDON	29 · 907	47 · 5	45 · 9	56 · 6	42 · 7	80	1886	24	1890	2 · 82	70 · 1†	22†
Oxford	29 · 906	46 · 0	44 · 7	55 · 4	42 · 0	76	1886	22	1873	2 · 75	101 · 7	31
Cambridge	29 · 895	46 · 3	45 · 3	56 · 4	40 · 9	80	1886	23	1895	2 · 41	104 · 4	32
Yarmouth	29 · 874	49 · 1	47 · 6	54 · 3	44 · 6	68	1876	27	1895	3 · 11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and upwards over the S.ⁿ parts of Norway and the northern parts of the North Sea; 30.1 ins. and upwards in an anticyclone embracing the greater part of NW.ⁿ Europe.
Lowest 29.9 ins. and less (apparently) in a depression lying off the SW. of Ireland; 30.0 ins and less in Lapland.
Gradients slight. Barometer falling in most parts of W.ⁿ Europe, but rising slightly in the SW. of France and at Lisbon, rising at most of the Scandinavian stations.

TEMPERATURE

Highest (1) 66° at Nice, 64° at Biarritz, and 63° at Lisbon; (2) 62° at Jersey, and 60° at Valencia (Ireland), Roche's Pt., Scilly and Prawle Pt.
Lowest (1) 41° at Haparanda, 44° at Bodo, and 46° at Hernosand, Stockholm and Karlstad; (2) 45° at Nairn; (3) 46° at Brussels, and 48° at Paris.
The maxima registered yesterday were below 60° at several of the E.ⁿ stations in Gt. Britain. In the W. and N. of Scotland, however, the thermometer rose to 65° and upwards, & at Stornoway to 70°.

WIND

Light to moderate from the E.ⁿᵈ over England and the adjacent parts of the Continent; fresh from the SE.ⁿᵈ in Ireland; calm or light from the SW.ⁿᵈ in the N. of Scotland.
Light to fresh from the W.ⁿᵈ in the west of Norway; strong to a gale from the NW.ⁿᵈ or N.ⁿᵈ in Sweden.
Variable in Denmark and N. Germany; and also in the south of France; S.ⁿ in the west of France.

WEATHER

Dull and misty over the United Kingdom as a whole, as well as in the Netherlands, Germany and the northern and central parts of France, with slight drizzling rain at one or two of the English stations.
Fine on some parts of our own extreme N. and NW. coasts, and also over the SW. of France & the greater part of Scandinavia, but foggy on the W. coast of Norway.
Slight rain fell yesterday at several of the English stations, and larger quantities in the W. of France; thunder occurred at Brest and lightning at Lyons and Biarritz.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is moving NE.ʷᵗᵒ and is inclined to disperse. Low pressure systems are apparently advancing towards our SW. coasts, and freshening SE.ⁿ winds are probable in that region, with some rain.

FORECASTS

For the 24 hours ending at NOON on 7TH OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light breezes chiefly S.ⁿ; fine generally, but some fog or mist.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	E.ⁿ winds, light or moderate; fair generally, but cloudy and misty in places.
6 SCOTLAND WEST	E.ⁿ and NE.ⁿ winds, light; fair generally, but some fog or mist.
7 ENGLAND N.W.	
8 ENGLAND S.W.	E.ⁿ and SE.ⁿ winds, strong; dull, some rain.
9 IRELAND NORTH	SE.ⁿ winds, fresh or strong; fair generally.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·44	59	54	NNW	4	b	1
Sumburgh Head	30·35	56	55	L	0	m	2
Stornoway	30·26	70	65	L	0	b	0
Aberdeen	30·37	57	54	S	2	bm	1
Shields	30·36	54	54	E	2	odp	2
Ardrossan	30·25	63	60	NNE	4	b	1
Malin Head ...	30·22	65	60	ESE	3	bm	1
Belmullet	30·19	64	63	SSE	1	o	*
Holyhead	30·22	61	58	E	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·10	61	57	ESE	4	og	4
Scilly	30·08	62	60	ENE	2	om	1
Jersey	30·11	67	62	ENE	4	bm	3
Hurst Castle ...	30·18	62	60	E	2	om	2
Dungeness ..	30·17	59	57	ENE	4	o	3
North Foreland	30·22	59	57	ENE	4	o	4
London (Westminster)	30·21	61	58	E	2	og	*
Yarmouth ...	30·25	57	56	ENE	4	cg	4
Rochefort ...	30·00	63	61	SE	2	T	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of NW.rn, N.rn and central Europe, with mist or fog in many places, and slight drizzling rain at some of the English stations; rain falling also in the W. of Norway and in Finland as well as at Berlin. Fine over Italy and Austria, as well as at many of the French and Spanish stations. Rain falling later in the W. of France; thunder occurring at Brest, and lightning at Lyons and Biarritz.

Temperature changed rather irregularly. Morning readings highest 76° at Malta, and 73° at Brindisi and Palermo; above 65° at the Mediterranean and Adriatic stations generally, and above 60° in the Channel Islands. Lowest 37° at Archangel, 38° at Uleaborg and Moscow, and 39° at Knoxin; lowest in our Islands 46° at Nairn, and 47° at Aberdeen. Daily maxima below 60° at many of our own E.rn and central stations, but thermometer rising to 65° and upwards on our extreme NW. coasts, and reaching 70° at Stornoway. Exceeding 70° at most of the French stations, and touching 77° at Lorient, Rochefort and Nice.

Wind light to moderate from the E.rly or NE.rly over England, Ireland, France and the greater part of central and southern Europe; calm or light from the S.rly in the north of Scotland. W.rly or NW.rly over Scandinavia, Denmark and Russia, with a gale at Christiania. Subsequently veering to the SE.rly in Ireland and freshening, no important change occurring elsewhere.

Barometer highest 30.4 ins. and upwards over the North Sea, the S. of Denmark and N. Germany; 30.1 ins. and upwards in an anticyclone embracing all but the SW.rn and extreme N.rn parts of Europe. Lowest 29.8 ins. and less in the most N.rn parts of Russia and Scandinavia; 30.0 ins. and less in a small shallow depression over the NE. of Spain. Anticyclone beginning to disperse later, and barometer falling in all parts of W.rn Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday 7th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·05	42	L	0	c	30·05	+ ·08	42	40	+ 1	N	2	c	*	c	*	50	36	0·04
	Hernösand ...	30·18	43	NW	6	b	30·17	+ ·05	40	37	− 6	N	4	bc	*	b	*	54	39	—
	Stockholm ...	30·18	42	W	2	b	30·15	+ ·02	42	40	− 4	N	2	b	*	b	*	55	42	—
	Wisby	30·18	49	N	8	c	30·14	·00	46	43	− 3	N	4	c	*	c	*	50	45	0·04
	Karlstad ...	30·23	43	N	2	b	30·23	− ·02	41	39	− 5	N	2	c	*	b	*	*	*	—
	Bodö	30·23	44	W	4	c	30·24	+ ·05	41	40	− 3	L	0	c	1	c	*	45	39	0·04
	Christiansund ...	30·33	51	N	2	r	30·29	− ·09	50	50	0	NNE	1	r	3	r	*	54	50	0·32
	Skudesnaes ...	30·26	52	L	0	b	30·25	− ·09	53	51	+ 4	SE	2	0	1	b	*	57	48	*
	Færder (Christiania Fjord)	30·26	54	SW	1	b	30·26	− ·02	49	44	− 4	ENE	1	0	0	b	*	57	48	—
	Skagen (The Scaw)	30·27	53	N	1	b	30·24	− ·02	50	48	− 4	E	1	c	0	b	*	59	48	—
	Fanö	30·20	51	ESE	4	b	30·21	·00	47	46	− 5	ESE	2	b	*	b	*	61	45	—
BRITISH ISLANDS.	Sumburgh Head	30·26	48	SE	1	f	30·22	+ ·03	48	48	− 1	NE	1	f	3	f	*	50	46	—
	Stornoway ...	30·09	60	L	0	b	30·07	− ·10	52	51	+ 2	L	0	b	0	b	8·6	69	47	—
	Wick	30·22	52	SE	3	0	30·19	− ·07	50	48	− 4	SE	3	0	3	0	*	58	48	—
	Nairn	30·16	60	L	0	b	30·14	− ·11	43	42	− 2	W	1	f	1	b	*	66	36	—
	Aberdeen ...	30·25	51	SE	2	og	30·18	− ·12	50	49	− 3	ESE	2	og	3	og, d	1·5	56	49	0·02
	Leith	30·20	54	E	3	0	30·13	− ·13	53	51	− 2	E	3	0	*	0	*	58	51	—
	Shields	30·20	54	ENE	3	0	30·10	− ·15	54	52	0	NE	3	0	3	od, 0	*	56	52	—
	Spurn Head ...	30·13	56	ENE	4	0	30·05	− ·13	57	54	0	NE	3	0	3	0	*	58	55	—
	York	30·15	56	E	1	0	30·05	− ·17	54	52	− 2	NNE	1	0	*	0	0·1	60	52	—
	Loughborough ...	30·12	57	E	2	0	30·06	− ·12	54	53	− 1	E	1	ogm	*	ogm	*	58	53	—
	Ardrossan ...	30·11	55	NNE	3	b	30·07	− ·14	53	52	− 2	NNE	3	of	1	bef, bf	*	61	51	—
	Malin Head ...	30·02	57	ESE	4	bc	29·96	− ·15	54	52	− 2	SE	5	bcm	3	bcm	*	58	52	—
	Belmullet ...	29·93	60	SSE	3	0	29·86	− ·17	59	56	+ 1	ESE	5	0	*	b, 0	*	64	56	—
	Donaghadee ...	30·07	58	ESE	5	c	30·03	− ·12	56	54	− 2	ESE	5	c	3	c	*	58	55	—
	Liverpool (Bidston)	30·09	57	E	2	om	30·04	− ·11	54	51	− 2	E	2	0	3	om	*	59	53	—
	Holyhead ...	30·01	57	E	2	b	29·97	− ·12	55	53	− 1	ENE	2	b	1	b, bm	*	64	52	—
	Parsonstown ...	29·96	59	SE	2	0	29·88	− ·16	58	55	0	SE	2	0	*	b, 0	5·0	65	57	—
	Valencia ...	29·81	61	ESE	4	0	29·70	− ·21	62	59	+ 2	SE	5	og	4	rg, og	0·1	63	59	0·08
	Roche's Point ..	29·90	60	S	5	p	29·79	− ·21	60	59	0	SSE	7	r	5	m, p	*	60	58	0·20
	Pembroke (St. Ann's Hd.)	29·98	61	ESE	4	0	29·92	− ·12	59	58	+ 2	SE	5	og	3	0	0·0	61	57	—
	Scilly	29·92	59	E	4	0	29·84	− ·10	61	60	+ 1	SSE	4	c	2	0	0·5	62	57	—
	Prawle Point ...	29·99	60	E	4	0	29·94	− ·08	60	59	0	E	4	om	4	0	*	64	58	—
	Jersey (St. Aubin's)	29·97	67	L	0	b	29·94	− ·09	59	59	− 3	L	0	cm	0	bm	*	73	56	—
	Hurst Castle ...	30·04	61	E	2	c	29·99	− ·08	59	57	0	ENE	2	ogm	2	cm	*	63	57	—
	Dungeness ...	30·03	59	NE	4	c	30·02	− ·07	55	55	− 2	ENE	3	0	2	c	*	64	55	—
	North Foreland	30·08	58	ENE	3	0	30·03	− ·10	56	54	− 2	ENE	3	om	3	0	*	59	54	—
	London (Brixton) ...	30·08	58	E	1	og	30·03	− ·10	55	53	− 4	E	1	og	*	og	0·0	62	54	—
	Oxford	30·08	56	ENE	2	0	30·04	− ·09	53	52	− 5	E	2	adp	*	odp	*	62	53	—
	Cambridge ...	30·10	57	L	0	0	30·05	− ·11	55	53	− 2	E	1	ogm	*	ogd	0·0	58	53	—
	Yarmouth ...	30·09	57	ENE	4	c	30·04	− ·12	56	54	0	E	4	cg	4	c	*	58	54	—
GERMANY & HOLLAND.	Cuxhaven ...	30·15	50	E	3	0	30·14	− ·07	46	46	− 6	E	2	f	*	0	*	54	45	—
	Berlin	30·15	53	NW	3	0	30·16	− ·05	46	43	− 6	NE	3	c	*	0	*	55	43	—
	Wiesbaden ...	*	*	*	*	*	30·04	?	54	52	− 1	NE	2	0	*	*	*	55	52	—
	Munich... ..	30·08	53	W	2	c	30·04	− ·14	52	52	+ 1	SE	1	0	*	c	*	57	50	—
	The Helder ...	30·09	54	ENE	2	0	30·08		50	49		ESE	1	0	1	0	*	55	48	—
BELGIUM.	Brussels ...	*	*	*	*	*	30·03	− ·11	51	50	+ 5	NE	1	f	*	f	*	58	46	—
	Cape Gris Nez ...	?	56	E	3	m	?	?	53	52	− 1	SE	1	f	1	m	*	61	50	—
	Paris	30·02	61	NE	2	b	29·99	− ·08	55	53	+ 7	NNE	1	0	*	b	*	73	48	—
	Brest	29·93	61	S	1	c	29·91	− ·06	60	59	+ 1	SE	2	bc	3	c	*	68	57	—
	Lorient... ...	29·96	61	SSE	1	c	29·94	− ·05	58	58	+ 1	S	1	c	5	c	*	72	55	—
FRANCE &	Rochefort ...	29·96	64	WSW	1	bc	29·98	− ·05	59	56	0	SE	1	m	*	bc	*	72	55	—
	Belfort	30·02	54	ENE	3	m	29·98	− ·11	51	51	0	L	0	f	*	m	*	68	51	—
	Lyons	30·02	61	N	1	? m	30·01	− ·11	53	53	− 1	E	1	0	*	? m	*	69	53	—
	Nice	30·03	59	ENE	1	bc	29·94	− ·13	59	53	− 9	E	1	b	0	bc	*	72	52	0·47
	Perpignan ...	30·02	61	L	0	0	30·00	− ·07	55	55	− 5	L	0	b	*	0	*	73	52	—
	Biarritz ...	29·95	72	L	0	0	29·95	− ·02	62	59	− 2	L	0	bc	1	0	*	77	61	—
PENINSULA.	Corunna ...																*			
	Lisbon	30·06	67	SW	2	0	30·04	− ·04	67	64	+ 4	SW	2	0	*	0	*	72	63	—
	Azores (P. Delgada)	29·98	69	WSW	3	bc	29·98	+ ·06	66	63	− 1	NW	2	c	2	bc	*	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

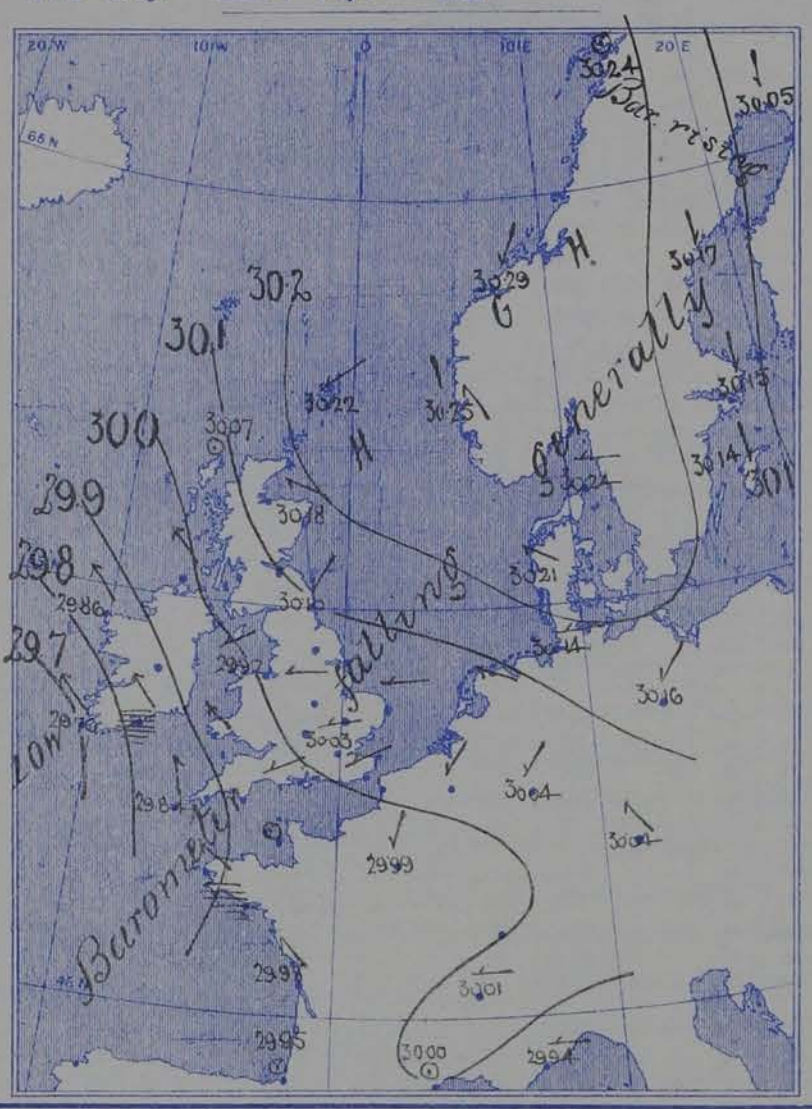
FOR Friday, 7th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

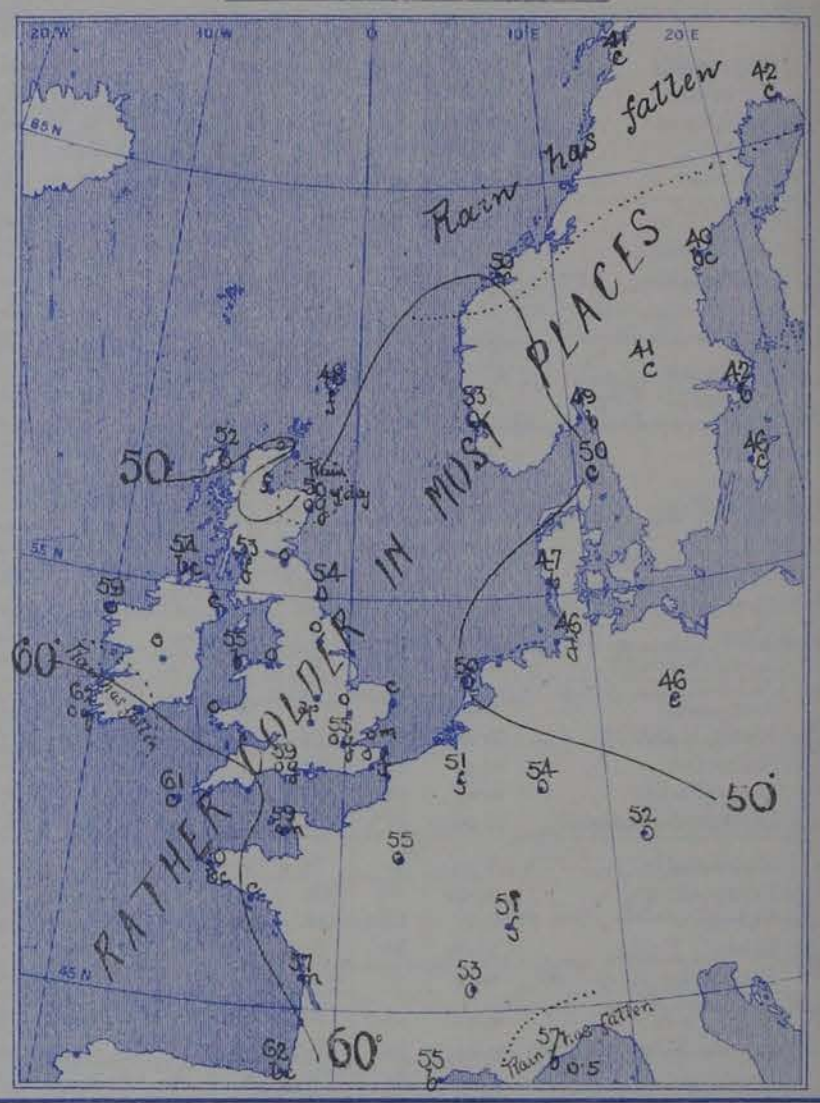
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone lying over Norway, Denmark and the northern and eastern parts of the North Sea.
Lowest 29.7 ins. and less in a depression lying off the SW. of Ireland.
Gradients slight generally, but increasing over Ireland.
Barometer falling in nearly all parts of Wn. Europe, but rising in the N. of Scandinavia.

TEMPERATURE

Highest 62° at Valencia (Ireland) and Biarritz, 61° at Scilly, and 60° at Roche's Pt., Prawle Pt. & Brest.
Lowest 40° at Hernösand, 41° at Bodö and Karlstad, and 42° at Stockholm, lowest in our Islands 43° at Nairn.
The maxima registered yesterday were below 60° at many of our Nn. and En. stations; at Nairn, however, the thermometer rose to 66°, and at Stornoway to 69°.

WIND

Light from the Ewd. (NE. to SE.) over Gt. Britain and the western parts of the Continent generally, but fresh to strong from the SEwd. in Ireland.
Calm in the extreme south of France; light to moderate from the Nwd. in Sweden.

WEATHER

Cloudy or dull over Wn. Europe generally, with fog or mist in many places, and with rain at Roche's Pt., as well as at Christiansund.
Fine on some parts of our NW. coasts and also in Sweden and the extreme S. of France.
Since yesterday morning a little rain has fallen in the S. of Ireland, and also at Aberdeen, but in other parts of our Islands there was no measurable quantity. Rain fell, however, at several of the Scandinavian stations, and (rather heavily) at Nice.

SEA

Moderate to smooth generally, but rather rough at Roche's Pt. and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is now spreading over our Islands from the SWwd., and rain is probable in many of our Wn. and Sn. districts, with a considerable increase of wind from the SEwd. in Ireland, and the SW. of England.

FORECASTS

For the 24 hours ending at NOON on 8TH OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SEly winds, light to fresh, cloudy, some mist or fog.
2 ENGLAND N.E.	Ely and NEly winds, moderate, cloudy, slight rain locally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Ely winds, light or moderate, dull, misty, some rain.
6 SCOTLAND WEST 7 ENGLAND N.W.	Ely winds, freshening, dull, misty, some rain.
↑ 8 ENGLAND S.W.	SEly winds, increasing in force, dull, some rain.
↑ 9 IRELAND NORTH ↑ 10 IRELAND SOUTH	SEly winds, strong to a gale, dull, some rain.
WARNINGS	At 10.20 am today to districts 9, 10 and part of 8. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·28	57	54	N	2	b	1
Sumburgh Head	30·18	49	49	2	0	f	2
Stornoway	30·13	69	63	2	0	b	0
Aberdeen	30·27	53	51	SE	2	og	2
Shields	30·22	55	54	NE	2	o	3
Ardrossan	30·11	61	59	NNE	3	bcf	1
Malin Head ...	30·06	58	55	ESE	3	be	3
Belmullet	29·94	64	58	ESE	3	b	*
Holyhead	30·04	63	59	E	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·85	61	59	ESE	5	rg	5
Scilly	29·92	61	60	ESE	4	o	1
Jersey	29·98	71	63	SE	1	b	1
Hurst Castle ...	30·04	63	61	ENE	2	cm	2
Dungeness ...	30·05	61	58	NE	3	c	3
North Foreland	30·09	59	56	ENE	3	o	3
London (Westminster)	30·09	61	58	ENE	1	og	*
Yarmouth ...	30·12	59	55	ENE	4	c	4
Rochefort ...	29·99	76	70	WSW	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning dull over the United Kingdom as a whole, and also over the central and E^rn. parts of the Continent, with mist or fog in many places, and with slight drizzling rain at one or two of the English stations. Fine on some parts of our own extreme N. and NW. coasts, as well as in Sweden, Denmark, Italy and the W. of France. A little rain falling later in the S. of Ireland, as well as at some of the Scandinavian stations, and a larger quantity at Nice.

Temperature changed little and irregularly in the W^rn. and S^rn. countries, but fallen over N^rn. Europe. Morning readings highest 75° at Malta and La Calle, 73° at Palermo and Algiers, and 72° at Brindisi; above 65° at the Mediterranean and Adriatic stations generally, and touching 60° on our own extreme SW. coasts. Lowest 33° at Archangel, 35° at Moscow, and 39° at Wiaborg. Daily maxima below 60° at most of our own N^rn. and E^rn. stations, but thermometer reaching 66° at Nairn, and 69° at Stornoway. Exceeding 70° in the Channel Islands and France, and reaching 77° at Biarritz.

Wind light to moderate from the E^wd. or NE^wd. over England and the neighbouring parts of the Continent; fresh from the SE^wd. in Ireland; calm or light from the SW^wd. in the north of Scotland. Strong to a gale from the N^wd. or NW^wd. in Sweden, and light to fresh from the same quarters over Finland, Denmark and the Baltic; W^ly or SW^ly over eastern Germany and the south of Russia. Calm in Austria, N^ly in Italy; variable over the Spanish peninsula, S^ly in the west of France. No important change occurring later.

Barometer highest 30.3 ins. and upwards over Norway and the N^rn. parts of the North Sea; 30.1 ins. and upwards in an anticyclone embracing nearly the whole of NW^rn. central and SE^rn. Europe. Lowest 29.7 ins. and less in a depression over the N^rn. parts of Russia; 29.9 ins. and less in another disturbance off the SW. of Ireland. Latter disturbance subsequently spreading E^wds., and barometer falling over W^rn. Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday 8th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·22	36	2	0	b	30·11	+·06	38	36	−4	NW	2	0	*	b	*	46	30	—
	Hernösand ...	30·23	45	2	0	0	30·07	−·10	36	35	−4	N	2	b	*	0	*	48	34	—
	Stockholm ...	30·19	42	NW	2	b	30·22	+·07	42	41	0	N	2	0	*	b	*	50	39	—
	Wisby	30·16	45	NNE	4	r	30·19	+·05	46	43	0	NNE	4	b	*	r	*	48	43	0·04
	Karlstad ...	30·21	42	N	2	bc	30·28	+·05	37	36	−4	N	2	b	*	bc	*	*	*	—
	Bodo	30·29	42	NE	2	b	30·32	+·08	40	38	−1	E	2	c	1	b	*	48	37	—
	Christiansund ...	30·30	50	NE	2	c	30·25	−·04	44	43	−6	E	3	b	3	c	*	52	43	0·04
	Skudesnaes ...	30·20	53	2	0	0	30·18	−·07	51	50	−2	2	0	0	1	c, o	*	57	46	*
	Færder (Christiania Fjord)	30·19	52	SW	1	0	30·27	+·01	46	44	−3	NE	4	c	2	0	*	54	46	—
	Skagen (The Scaw)	30·19	50	2	0	0	30·23	−·01	50	47	0	ESE	2	0	0	0	*	55	46	—
	Fano	30·17	48	ENE	4	b	30·17	−·04	48	47	+1	2	0	0	*	b	*	63	46	0·04
BRITISH ISLANDS.	Sumburgh Head	30·18	49	E	2	0	30·12	−·10	49	49	+1	E	1	0	2	0	*	50	46	0·02
	Stornoway ...	30·00	53	SE	2	b	29·94	−·13	46	45	−6	E	3	b	3	b	8·4	60	44	—
	Wick	30·10	51	SE	4	0	30·06	−·13	55	53	+5	S	3	bc	1	0	*	62	49	0·01
	Nairn	30·02	51	E	2	b	30·03	−·11	47	45	+4	2	0	b	1	b	*	60	37	—
	Aberdeen ...	30·12	52	ESE	3	og	30·09	−·09	55	53	+5	SSE	3	bcw	3	d, og	0·1	55	49	0·01
	Leith	30·04	54	E	3	0	30·03	−·10	53	51	0	E	3	bc	*	0	*	55	51	—
	Shields	30·06	55	E	3	0	30·04	−·06	55	53	+1	ESE	3	c	3	0	*	56	52	—
	Spurn Head ...	30·03	56	ESE	3	0	30·01	−·04	56	51	−1	ESE	5	bc	5	0	*	57	55	—
	York	30·04	55	E	1	0	30·03	−·02	55	52	+1	ESE	1	bc	*	0	0·0	57	52	—
	Loughborough ...	30·02	55	E	2	0	29·99	−·07	52	50	−2	E	2	ogm	*	ogm	*	56	51	—
	Ardrossan ...	29·99	55	NE	4	bf	29·97	−·10	55	54	+2	NE	3	bcm	2	ef, bf	*	58	49	—
	Malin Head ...	29·90	58	SE	5	om	29·82	−·14	55	53	+1	SE	5	cm	3	bcm, om	*	57	53	—
	Belmullet ...	29·77	60	ESE	4	bc	29·72	−·14	59	56	0	SSE	4	0	*	c, bc	*	62	56	—
	Donaghadee ...	29·96	57	SE	5	om	29·92	−·11	56	54	0	SE	7	c	5	om	*	57	54	—
	Liverpool (Bidston)	29·95	54	ESE	3	0	29·96	−·08	53	50	−1	ESE	3	0	?	om	*	57	51	—
	Holyhead ...	29·90	56	E	2	bcm	29·88	−·09	54	52	−1	ENE	2	cm	1	bm, bcm	*	64	52	—
	Parsonstown ...	29·82	60	E	2	r	29·78	−·10	57	55	−1	SE	1	od	*	or	0·6	61	57	0·04
	Valencia ...	29·62	63	SE	6	rg	29·71	+·01	58	56	−4	SSE	3	cf	4	c, rg	2·0	65	54	0·57
	Roche's Point ..	29·90	60	S	6	r	29·79	·00	60	58	0	SSE	2	b	4	rg	*	61	56	0·28
	Pembroke (St. Ann's Hd.)	29·88	58	SE	5	0	29·83	−·09	55	54	−4	SE	5	rsg	4	c	0·3	59	55	0·19
	Scilly	29·78	60	SE	5	c	29·79	−·05	61	60	0	SSW	1	c	2	cf, c	2·1	63	59	0·53
	Prawle Point ...	29·92	54	E	3	0	29·82	−·12	58	57	−2	E	2	c	3	cg, r	*	60	54	0·24
	Jersey (St. Aubin's)	29·89	66	NE	1	b	29·85	−·09	61	60	+2	SW	2	ofm	2	b, r	*	69	58	0·05
	Hurst Castle ...	29·95	59	E	3	om	29·90	−·09	57	55	−2	E	4	ogm	3	om	*	61	55	—
	Dungeness ...	29·96	58	ENE	2	0	29·93	−·09	56	53	+1	E	3	0	3	0	*	58	54	—
GERMANY & HOLLAND	North Foreland	29·99	56	ENE	4	0	29·95	−·08	55	51	−1	ENE	3	0	2	0	*	57	51	—
	London (Brixton) ...	29·98	56	E	1	og	29·95	−·08	54	51	−1	ENE	1	og	*	og	0·0	60	53	—
	Oxford	29·99	56	E	2	0	29·95	−·09	54	51	+1	E	1	0	*	0	*	59	53	—
	Cambridge ...	30·01	57	E	1	om	29·98	−·07	54	51	−1	E	1	0	*	ogm	0·0	59	51	—
	Yarmouth ...	30·01	55	E	4	c	29·99	−·05	55	52	−1	E	5	bc	5	cg, c	*	55	52	—
	Cuxhaven ...	30·12	54	E	2	b	30·09	−·05	49	45	+3	NE	4	b	*	b	*	55	45	—
	Berlin	30·11	48	E	2	b	30·08	−·08	47	45	+1	E	2	0	*	b	*	54	46	—
	Wiesbaden ...	*	*	*	*	*	29·97	−·07	52	49	−2	WSW	1	0	*	*	*	57	50	—
	Munich	30·02	52	2	0	c	29·98	−·06	48	45	−4	2	0	f	*	c	*	59	45	—
	The Helder ...	30·06	54	E	3	b	30·03	−·05	51	46	+1	E	2	b	3	b	*	57	48	—
BELGIUM.	Brussels ...	*	*	*	*	*	29·98	−·05	50	46	−1	ENE	2	0	*	0	*	55	47	—
	Cape Gris Nez	?	56	E	1	f	?	?	53	50	0	ESE	2	m	1	f	*	61	50	—
	Paris ...	29·96	54	ENE	2	0	29·92	−·07	46	46	−9	E	1	f	*	•	*	64	43	—
	Brest ...	29·85	62	SSE	2	c	29·82	−·09	59	58	−1	WNW	2	c	4	c	*	66	54	—
	Lorient	29·90	62	S	1	0	29·87	−·07	56	56	−2	S	1	r	5	0	*	72	55	0·39
FRANCE &	Rochefort ...	29·93	63	SW	2	c	29·90	−·08	59	57	+2	2	0	c	*	c	*	68	55	—
	Belfort	29·95	54	ENE	4	m	?	?	51	51	0	E	3	f	*	m	*	59	50	—
	Lyons	29·97	59	E	1	c	29·91	−·10	51	50	−2	E	1	b	*	c	*	71	48	—
	Nice	29·86	60	ENE	4	bc	29·84	−·10	54	54	−3	ENE	2	b	2	bc	*	70	54	0·08
	Perpignan ...	29·93	62	2	0	b	29·89	−·11	61	60	+6	SW	1	c	*	b	*	75	57	—
	Biarritz ...	29·89	61	ENE	2	c	29·89	−·06	62	59	0	SSW	3	c	2	c	*	72	61	—
PENINSULA.	Corunna ...																*			
	Lisbon ...	30·06	66	SW	3	b	30·10	+·06	65	61	−2	NNW	3	c	*	b	*	72	63	—
	Azores (P. Delgada)	29·99	69	SW	2	bc	29·97	−·01	70	68	+4	SW	3	c	4	bc	*	73	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 *hrs;*

WEATHER CHARTS

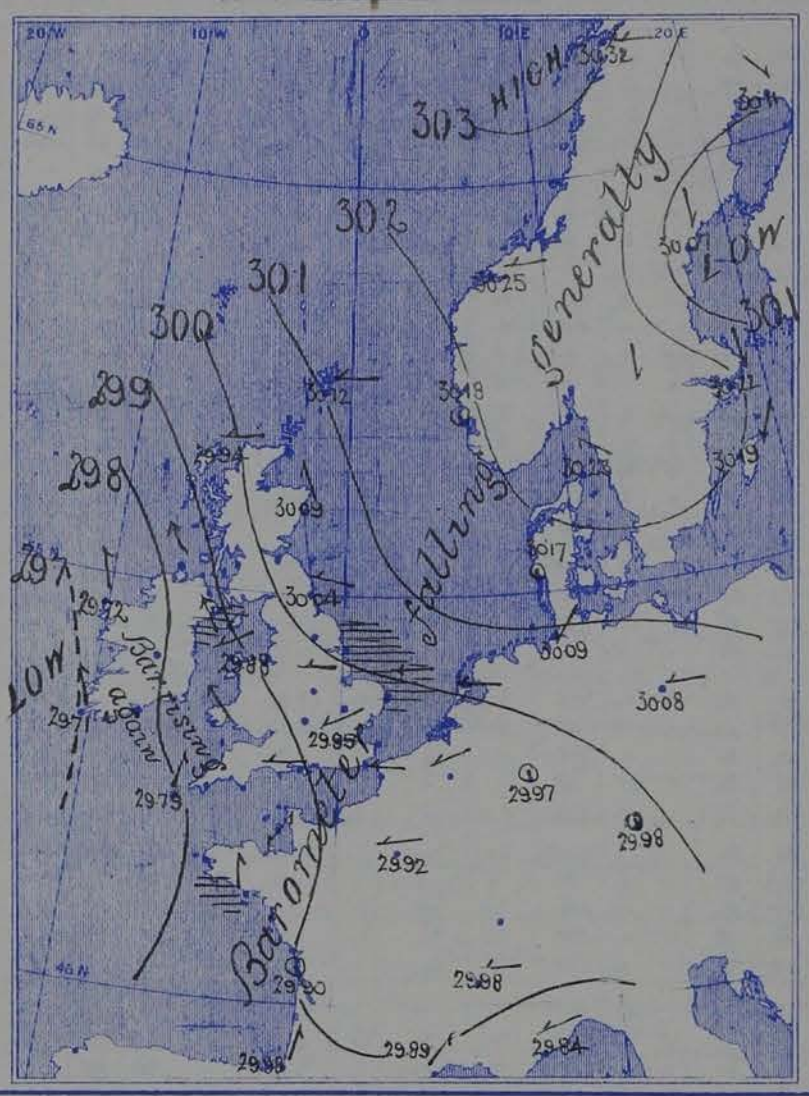
FOR *Saturday, 8th October,* 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

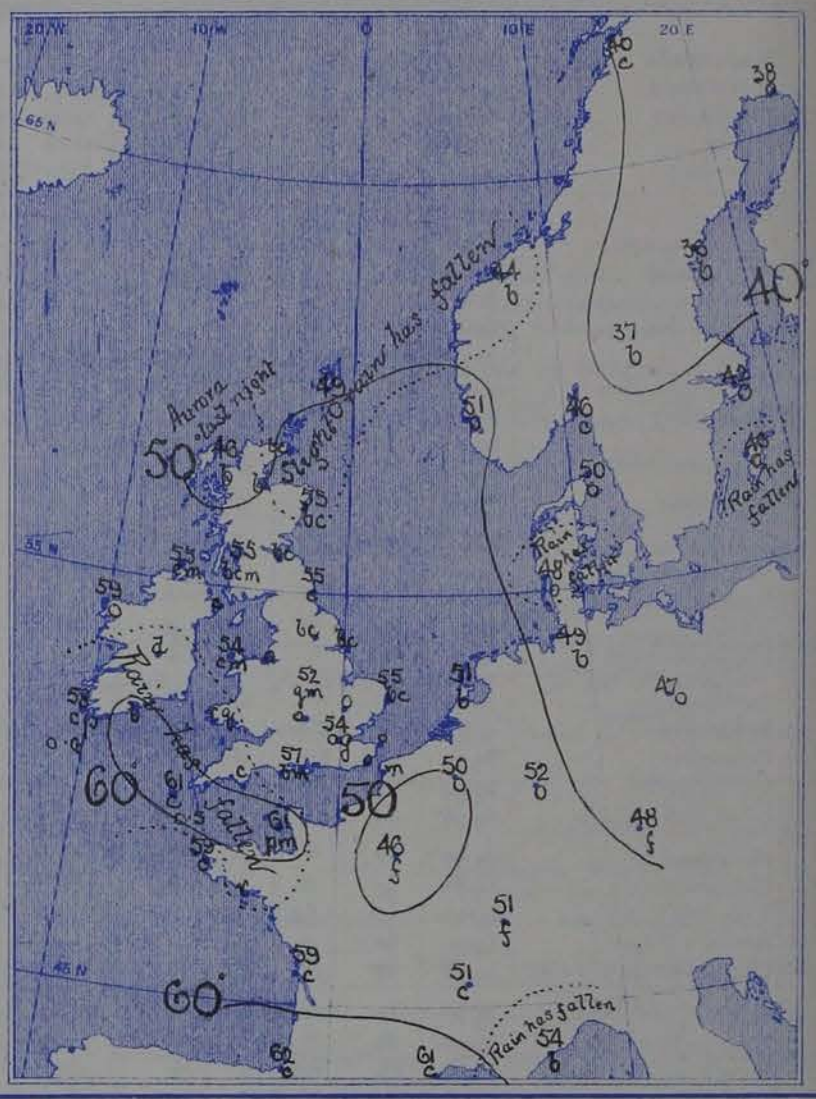
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–			5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.32 ins. at Bodö; 30.2 ins. and upwards in an anticyclone lying over nearly the whole of Scandinavia.
Lowest 29.7 ins. and less in a shallow depression off the SW. of Ireland.
Gradient slight. Barometer falling a little in most parts of Wn. Europe, but rising again on our SWn. and Sn. coasts.

TEMPERATURE

Highest 62° at Biarritz, 61° at Scilly, Jersey and Perpignan, 60° at Roche's Pt., and 59° at Belmullet, Brest and Rochefort.
Lowest 36° at Hernösand, 37° at Karlstad, 38° at Haparanda, and 40° at Bodö: lowest in our Islands 47° at Nairn.
The maxima registered yesterday were below 60° at most of our Nn., Cn. and SE. stations; at Stornoway and Nairn, however, the thermometer just touched 60°, while at Wick it reached 62°.

WIND

Ely. over the greater part of England, the Netherlands and N. Germany, and fresh in force on our east coasts.
SE ly. in the west and north of our Islands, with a moderate gale at Donagladee.
E ly. in the west of Norway and N ly. in Sweden, calm or light from the Sd. in the west of France.

WEATHER

Fine over the Nn. parts of Gt. Britain, as well as at several of the Scandinavian stations and in the south of France.
Cloudy or dull elsewhere, with rain or passing showers on some parts of our own W. & SW. coasts.
Rain fell yesterday in the SWn. parts of our Islands generally,—rather heavily at Valencia (Ireland) and Scilly. Slight amounts, due probably to wet fogs, were also measured in the N. of Scotland. Aurora was seen last night at Stornoway.

SEA

Rather rough on the E. coasts of England, and also at Donagladee and Lorient, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the SW. appears to be filling up and the general tendency is for the weather to improve. Showers are, however, likely to occur in several parts of England and Ireland.

FORECASTS

For the 24 hours ending at NOON on 9TH OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SE ly. winds, moderate; fair generally.
2 ENGLAND N.E.	E ly. and SE ly. winds, moderate; fine at first, some showers later.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	E ly. to SE ly. winds, light; dull, some showers.
6 SCOTLAND WEST 7 ENGLAND N.W.	E ly. and SE ly. winds, moderate; cloudy, some showers.
8 ENGLAND S.W.	Varying S ly. breezes; changeable, some showers.
9 IRELAND NORTH	SE ly. winds, strong; cloudy, some showers.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	At 10.30 am. to districts 8 and 10. Lower Cone. The signals are still flying in district 9.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·23	56	54	S	2	c	1	Valencia	29·65	64	60	SE	5	c	5
Sumburgh Head	30·20	49	48	E	2	o	3	Scilly	29·82	60	60	SE	4	cf	3
Stornoway	30·02	60	56	ESE	4	b	4	Jersey	29·72	68	64	ESE	2	bm	2
Aberdeen	30·14	53	51	SE	1	og	3	Hurst Castle ...	29·97	60	58	E	3	om	2
Shields	30·08	55	53	E	3	o	3	Dungeness ...	29·99	57	55	ENE	1	o	1
Ardrossan	30·08	58	55	NE	4	cf	2	North Foreland	30·01	56	54	ENE	3	o	2
Malin Head ...	? 29·94	57	53	SE	6	bc	3	London (Westminster)	30·00	60	55	ESE	1	og	*
Belmullet	29·84	61	57	SE	5	c	*	Yarmouth ...	30·03	57	54	E	4	cg	4
Holyhead	29·94	60	57	N	1	bm	1	Rochefort ...	29·96	63	59	NE	2	m	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of Europe, with fog or mist in many parts of our Islands, France and Germany. Rain falling at Roche's Pt. and also at Christiansund and Thorshavn. Fine in Sweden, as well as in Italy and the extreme S. of France. Rain falling during day over the SW.rn parts of our Islands generally — rather heavily at Valencia and Scilly; slight amounts (due to wet fog) measured in the N. of Scotland. Aurora seen at Stornoway.

Temperature fallen in most places. Morning reading highest 75° at Malta, 74° at Rome, Brindisi and Palermo, and 73° at Sfax; above 65° at the Mediterranean, Adriatic and Spanish coast stations generally, and above 60° on our extreme SW. coasts. Lowest 34° at Moscow, 35° at Archangel, and 37° at Hangö, Thorshavn and St. Petersburg; lowest in our Islands 43° at Nairn. Daily maxima below 60° at most of our own N.rn, E.rn and SE.rn stations, but thermometer touching that point at Stornoway and Nairn, and reaching 62° at Wick. Rising to 70° and upwards in the W. and S. of France, and to 75° at Perpignan.

Wind light from the E.rly (SE. to NE.) over Gt. Britain and all adjacent parts of the Continent; fresh to strong from the SE.rly in Ireland. N.ly over Sweden and N.rn Russia, but W.ly in the south of Russia. Variable over southern Europe generally. No important change occurring during day.

Barometer highest 30·2 ins. and upwards in an anticyclone over Norway, Denmark and the N.rn and E.rn parts of the North Sea. Lowest 29·7 ins. and less in a depression off the SW. of Ireland; 29·8 ins. and less in a large shallow system over the S.rn parts of Russia. Irish depression spreading slowly eastwards during day, and barometer falling slightly over W.rn Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 9th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·08	40	2	0	c	30·06	−·05	40	37	+ 2	2	0	0	*	c	*	46	36	—
	Hernösand ...	30·16	42	2	0	0	30·10	+·03	35	34	− 1	2	0	b	*	0	*	52	30	—
	Stockholm ...	30·17	41	2	0	b	30·12	−·10	42	40	0	NW	2	0	*	b	*	48	36	—
	Wisby	30·19	46	NNE	4	c	30·13	−·06	48	45	+ 2	NNW	8	0	*	c	*	50	41	—
	Karlstad ...	30·23	42	N	2	b	30·24	−·04	37	36	0	2	0	b	*	b	*	*	*	—
	Bodö	30·24	45	SW	4	0	30·16	−·16	46	45	+ 6	SW	6	0	3	0	*	48	37	0·08
	Christiansund ...	30·25	46	E	2	b	30·27	+·02	43	41	− 1	E	1	b	2	b	*	50	41	—
	Skudesnaes ...	30·22	48	SSW	4	c	30·22	+·04	49	46	− 2	WNW	4	bc	2	c	*	56	46	*
	Færder (Christiania Fiord)	30·25	47	SSW	1	b	30·22	−·05	43	41	− 3	NNW	2	b	1	b	*	48	43	—
	Skagen (The Scaw)	30·21	49	E	1	bc	30·23	·00	49	47	− 1	SE	1	b	0	bc	*	55	45	—
	Fanö	30·19	45	ENE	2	b	30·20	+·03	44	43	− 4	E	2	f	*	b	*	54	41	—
BRITISH ISLANDS.	Sumburgh Head	30·10	51	ESE	1	0	30·10	−·02	52	50	+ 3	SE	3	0	4	0	*	52	47	—
	Stornoway ...	29·89	53	2	0	b	29·90	−·04	53	50	+ 7	S	4	b	4	b	8·2	63	44	—
	Wick	30·03	55	S	3	b	30·04	−·02	54	53	− 1	SE	4	bc	3	b	*	57	50	—
	Nairn	29·98	55	ESE	2	b	30·01	−·02	45	44	− 2	2	0	b	1	b	*	64	38	—
	Aberdeen ...	30·08	52	SSE	3	bc	30·06	−·03	54	53	− 1	SE	3	og	4	cq.bc	4·4	55	50	0·01
	Leith	30·00	54	E	3	b	30·01	−·02	53	49	0	2	0	b	*	b	*	63	45	—
	Shields	30·05	54	ESE	3	b	30·05	+·01	55	52	0	SE	2	bcm	3	b	*	60	48	—
	Spurn Head ...	30·02	55	ESE	4	b	30·06	+·05	54	51	− 2	S	3	bc	3	b	*	59	49	—
	York	30·02	53	E	2	b	30·05	+·02	52	48	− 3	E	1	b	*	b	8·6	61	44	—
	Loughborough ...	29·99	52	E	1	b	30·04	+·05	40	40	− 12	ESE	1	cw	*	o.c.bc.b	*	62	31	—
	Ardrossan ...	29·94	55	E	3	bm	29·97	·00	51	49	− 4	E	3	cm	2	bm	*	59	44	—
	Malin Head ...	29·77	55	SE	6	cmq	29·81	−·01	51	51	− 4	SSE	5	rm	3	bc.cmq	*	59	51	0·25
	Belmullet ...	29·67	61	SSE	4	0	29·88	+·16	55	52	− 4	W	2	b	*	b.o	*	65	49	0·58
	Donaghadee ...	29·91	57	SE	6	c	29·90	−·02	53	52	− 3	SE	6	r	4	c	*	57	52	0·13
	Liverpool (Bidston)	29·98	54	SE	1	0	29·98	+·02	48	44	− 5	ESE	5	c	4	om	*	58	43	—
	Holyhead ...	29·90	57	E	1	om	29·88	·00	53	50	− 1	SE	1	rgm	0	om	*	63	50	0·03
	Parsonstown ...	29·78	58	SE	2	b	29·90	+·12	51	50	− 6	2	0	b	*	b.o.r	8·0	65	49	0·64
	Valencia ...	29·62	61	SE	6	rlmq	29·94	+·23	51	50	− 7	2	0	b	4	op.rlgm	4·5	63	49	0·73
	Roche's Point ..	29·80	60	S	5	0	29·95	+·16	52	50	− 8	NNW	3	b	3	o.r	*	62	57	1·05
	Pembroke (St. Ann's Hd.)	29·87	58	SE	5	0	29·87	+·04	56	55	+ 1	NW	6	bc	5	o.q	0·0	58	55	0·25
	Scilly	29·86	59	SSE	2	bc	29·92	+·13	60	57	− 1	NW	4	c	2	bc	10·0	67	57	0·23
	Prawle Point ...	29·88	57	NNE	2	c	29·92	+·10	58	58	0	S	4	orf	4	cp	*	60	55	0·08
	Jersey (St. Aubin's)	29·90	63	W	3	c	30·02	+·17	60	59	− 1	SSE	2	cpd	2	c.b	*	64	52	0·01
	Hurst Castle ...	29·91	58	ENE	2	om	29·99	+·09	57	55	0	E	3	om	2	rm.om	*	58	54	0·11
	Dungeness ...	29·92	57	NE	3	0	30·02	+·09	47	45	− 9	N	2	bc	1	o	*	60	46	—
	North Foreland	29·96	56	ENE	4	c	30·04	+·09	55	50	0	ENE	2	o	2	c	*	57	53	—
	London (Brixton) ...	29·96	55	E	3	bc	30·05	+·10	50	46	− 4	E	1	cm	*	c.bm	1·0	61	43	—
	Oxford	30·01	45	ESE	2	b	30·03	+·08	43	42	− 11	NE	1	bf	*	o.b	*	59	38	—
	Cambridge ...	30·01	53	E	2	b	30·06	+·08	44	43	− 10	2	0	bmw	*	b	5·1	66	37	—
	Yarmouth. ...	29·99	55	E	6	bc	30·05	+·06	54	49	− 1	E	4	cv	4	bc	*	57	50	—
GERMANY & HOLLAND.	Cuxhaven ...	30·09	52	E	4	c	30·13	+·04	48	45	− 1	E	3	o	*	c	*	55	46	—
	Berlin	30·11	50	E	2	c	30·19	+·11	42	41	− 5	E	2	b	*	c	*	54	41	—
	Wiesbaden ...	*	*	*	*	*	30·06	+·09	51	49	− 1	NE	1	bc	*	*	*	57	51	—
	Munich... ..	29·97	50	E	4	b	30·04	+·06	46	43	− 2	E	4	c	*	b	*	59	44	—
	The Helder ...																*			
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	30·04	+·06	44	43	− 6	2	0	b	*	o	*	56	41	—
	Cape Gris Nez...	?	55	E	2	m	?	?	47	45	− 6	ESE	1	m	0	m	*	59	43	—
	Paris	29·91	57	W	1	0	30·02	+·10	54	54	+ 8	2	0	o	*	o	*	64	46	0·04
	Brest	29·92	62	W	1	b	29·97	+·15	61	61	+ 2	S	3	f	4	b	*	64	54	0·08
	Lorient... ...	29·95	61	W	4	0	30·01	+·14	60	60	+ 4	SSW	3	o	5	o	*	72	55	—
	Rochefort ...	29·96	62	WNW	4	c	30·08	+·18	58	57	− 1	SW	2	b	*	c	*	66	55	—
	Belfort	29·86	55	NW	2	b	30·01	?	50	50	− 1	2	0	f	*	b	*	62	46	—
	Lyons	29·89	57	W	1	r	30·02	+·11	56	54	+ 5	WNW	3	o	*	tlr	*	71	51	0·67
	Nice	29·80	61	2	0	b	29·82	−·02	59	58	+ 5	2	0	ctl	3	b	*	70	54	—
	Perpignan ...	29·89	66	2	0	0	30·02	+·13	60	55	− 1	NW	3	b	*	o	*	78	59	0·04
	Biarritz ...	30·00	60	NW	4	r	30·07	+·18	62	59	0	SW	4	c	4	r	*	66	59	0·47
PENINSULA.	Corunna ...																*			
	Lisbon	30·15	62	N	2	b	30·18	+·08	64	60	− 1	NNE	2	b	*	b	*	72	59	—
	Azores (P. Delgada)	30·00	68	N	4	c	30·05	+·08	63	59	− 7	NNE	4	o	4	c	*	73	61	0·20

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 4·1 hrs;

WEATHER CHARTS

FOR *Sunday, 9th October,* 1898

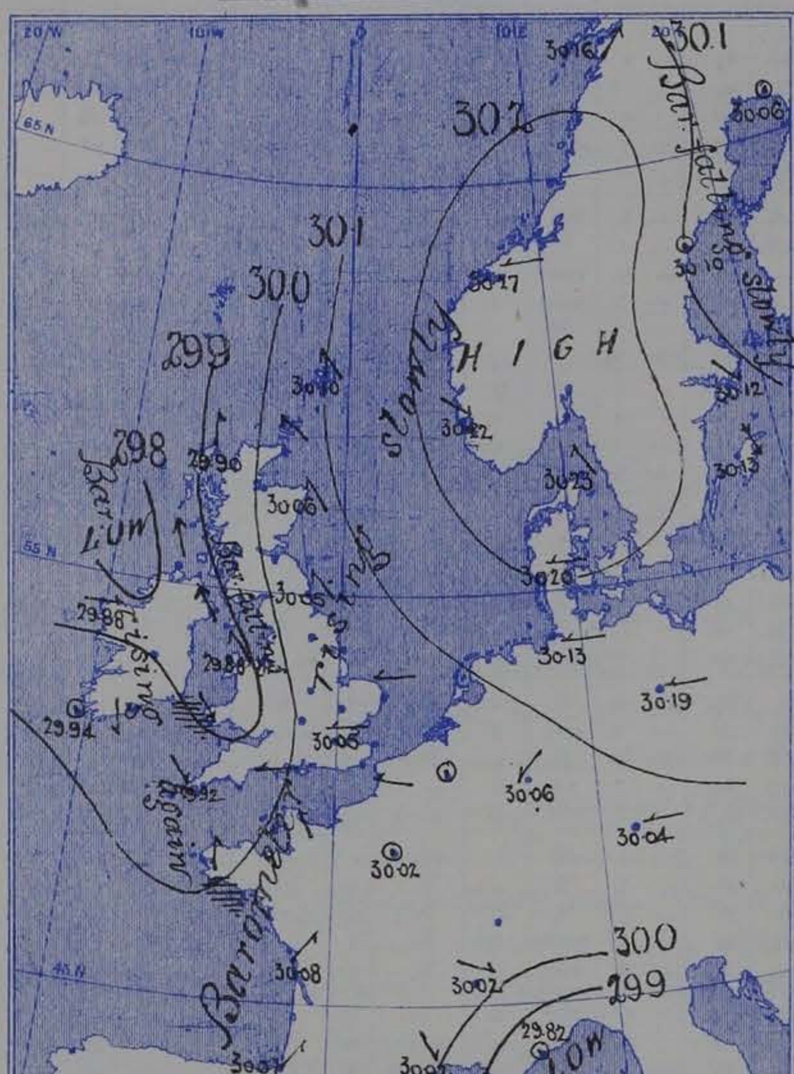
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—Rough ; *High*

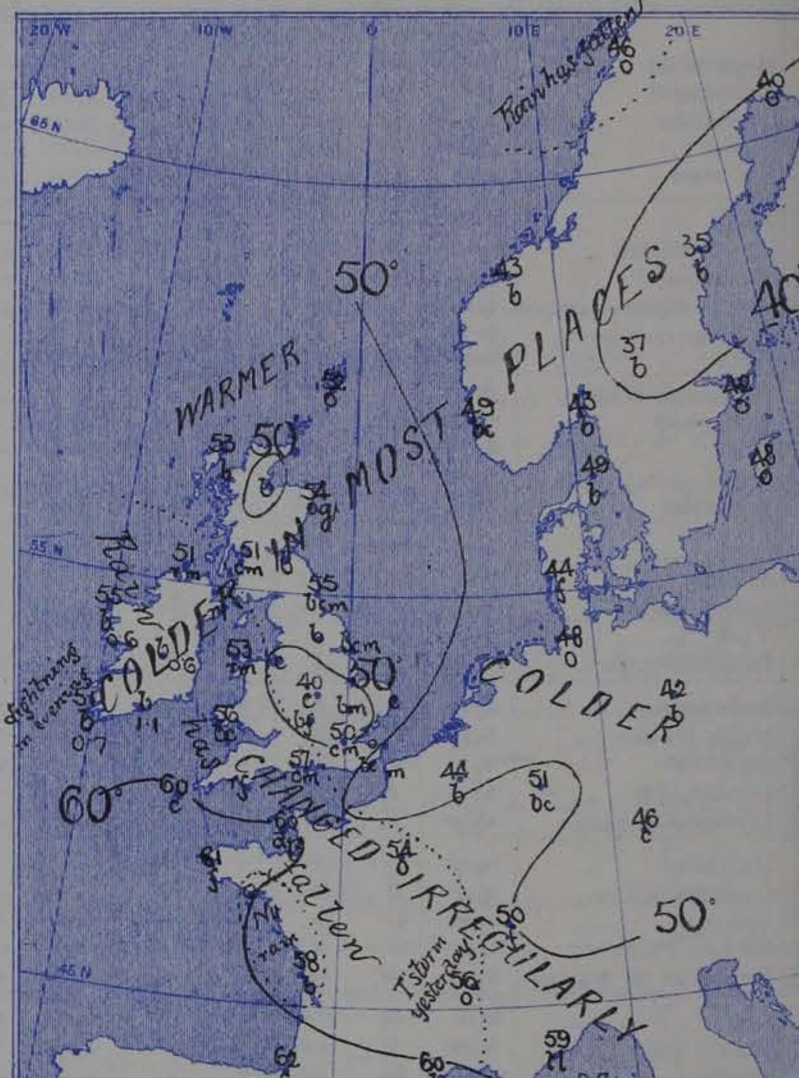


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF OCTOBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 712	45 · 9	44 · 2	49 · 7	41 · 6	60	1882	26	1875	4 · 31	—	—
Stornoway	29 · 743	45 · 4	44 · 3	50 · 8	40 · 3	67	1895	26	1880	5 · 15	84 · 1	27
Wick	29 · 747	46 · 1	44 · 5	51 · 6	40 · 4	64	1883, 94	22	1885	3 · 14	—	—
Nairn	29 · 763	44 · 5	42 · 6	51 · 9	40 · 0	69	1895	20	1885	2 · 51	—	—
Aberdeen	29 · 779	45 · 4	43 · 4	52 · 3	41 · 1	74	1883	25	1880	3 · 05	97 · 5	31
Leith	29 · 805	46 · 4	44 · 5	54 · 5	41 · 4	69	1882	25	1894	2 · 03	—	—
Shields	29 · 826	46 · 9	45 · 1	53 · 2	42 · 2	67	1875, 76, 82, 90	27	1890, 92, 95	2 · 58	—	—
Spurn Head	29 · 847	48 · 8	47 · 3	53 · 3	45 · 5	66*	1882, 90, 95	33*	1887, 95	2 · 33	—	—
York	29 · 862	45 · 6	44 · 2	54 · 4	41 · 0	70	1883, 95	24	1880, 95	2 · 74	87 · 3	27
Loughborough	29 · 886	45 · 6	44 · 3	55 · 6	40 · 9	77*	1886	20*	1890	2 · 83	—	—
Ardrossan	29 · 813	47 · 6	45 · 7	53 · 5	43 · 4	67	1895	26	1880	3 · 82	—	—
Malin Head	29 · 798	48 · 2	46 · 1	52 · 4	45 · 6	—	—	—	—	—	—	—
Belmullet	29 · 846	49 · 4	46 · 4	53 · 9	46 · 0	—	—	—	—	5 · 18	—	—
Donaghadee	29 · 834	47 · 6	46 · 3	53 · 6	43 · 3	65	1895	21	1892	3 · 22	—	—
Holyhead	29 · 854	50 · 1	48 · 0	54 · 6	47 · 0	71	1886	32	1892	4 · 44	—	—
Liverpool	29 · 862	47 · 6	45 · 5	53 · 7	44 · 5	72	1886	27	1895	3 · 58	—	—
Parsonstown	29 · 877	45 · 5	43 · 9	54 · 6	40 · 4	68	1873	22	1880	3 · 12	97 · 1	30
Valencia	29 · 879	51 · 0	48 · 8	56 · 3	46 · 3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5 · 57	104 · 2	32
Roche's Point	29 · 876	49 · 9	48 · 1	55 · 7	45 · 8	65	1880, 84, 86	32	1881	4 · 16	—	—
Pembroke	29 · 871	51 · 0	49 · 1	54 · 7	47 · 8	66	1872, 86	33	1895	4 · 11	103 · 4	32
Scilly	29 · 892	53 · 6	51 · 5	56 · 6	50 · 0	69	1895	38	1895	3 · 77	—	—
Prawle Point	29 · 910	51 · 0	49 · 4	56 · 5	46 · 1	68*	1882	29*	1887	3 · 78	—	—
Jersey	29 · 913	53 · 3	50 · 6	58 · 3	48 · 7	73	1876	33	1887	4 · 70	127 · 4	39
Hurst Castle	29 · 906	50 · 7	49 · 1	57 · 1	45 · 8	72	1874	27	1887	3 · 60	—	—
Dover	29 · 898	50 · 2	48 · 4	56 · 3	46 · 1	70	1886	23	1890	3 · 43	—	—
LONDON	29 · 907	47 · 5	45 · 9	56 · 6	42 · 7	80	1886	24	1890	2 · 82	70 · 1†	22†
Oxford	29 · 906	46 · 0	44 · 7	55 · 4	42 · 0	76	1886	22	1873	2 · 75	101 · 7	31
Cambridge	29 · 895	46 · 3	45 · 3	56 · 4	40 · 9	80	1886	23	1895	2 · 41	104 · 4	32
Yarmouth	29 · 874	49 · 1	47 · 6	54 · 3	44 · 6	68	1876	27	1895	3 · 11	—	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·2 in: and upwards, over Norway and the north of Denmark; 30·1 in: and upwards in an anticyclone lying over nearly the whole of Scandinavia, Denmark, Germany and the North Sea, as well as in another system over the Spanish Peninsula. Lowest, 29·9 in: and less, in a V shaped depression stretching from the west of Scotland across Ireland and Wales, and also in another depression over the Gulf of Genoa. Gradient slight. Barometer falling slightly at some of our more northern stations and also in Sweden, but rising elsewhere.

TEMPERATURE — Highest, 64° at Lisbon, 62° at Biarritz, 61° at Brest, and 60° at Jersey, Lorient, and Perpignan. Lowest, 35° at Haparanda, 37° at Karlstad, 40° at Haparanda, and 42° at Stockholm and Berlin; lowest in our Islands, 40° at Loughborough. Frost occurred over Central England last night; at Loughborough the thermometer fell to 31° in the screen and to 27° on the grass.

WIND — SE or E over all the more northern and eastern parts of our Islands, and strong in force in the north of Ireland, NW over the south of Ireland and the Bristol Channel. S or SW in the west of France. Calm over the Gulf of Bothnia; NW in the south of Scandinavia, with a gale at Visby; E in Denmark and Germany.

WEATHER — Fine in the northern and eastern parts of Great Britain and also in the west and south of Ireland, but rainy on our northwest coasts, as well as at some of the English Channel stations. Dull in Sweden, fine in most parts of Norway, Denmark, Germany and the south of France, but a thunderstorm reported at Nice. Rain fell yesterday at most of our western and southwestern stations, the largest amounts being 1·1 in: at Rockhill and 0·7 in: at Valencia (Ireland). Lightning was seen at Valencia in the evening.

SEA — Moderate or slight generally, but rather rough at Pembroke and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 10th OCTOBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	At 7·20 pm yesterday to district 10 Hoist South Cone

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.23	56	51	N	0	c	1
Sumburgh Head	30.12	51	49	SE	1	o	2
Stornoway	29.91	63	56	SE	3	b	3
Aberdeen	30.08	55	53	SE	4	cq	4
Shields	30.05	57	53	E	4	b	3
Ardrossan	29.96	58	55	SE	3	bm	2
Malin Head ...	29.78	57	54	SE	7	bc	4
Belmullet	29.71	65	57	SSE	4	b	*
Holyhead	29.89	62	57	SSE	1	ow	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.69	62	57	SE	6	ofp	5
Scilly	29.82	66	61	SW	1	bc	3
Jersey	29.88	63	59	W	3	c	3
Hurst Castle ...	29.91	57	56	E	2	rm	2
Dungeness ...	29.91	58	55	ENE	4	o	3
North Foreland	29.95	? 57	53	ENE	3	bc	3
London (Westminster)	29.94	59	52	E	3	o	*
Yarmouth ...	29.99	56	52	E	5	b	5
Rochefort ...	29.92	66	64	W	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the northern parts of Gt. Britain, as well as at several of the Scandinavian stations and in Greece and the southern parts of Italy and France. Cloudy or dull elsewhere, with fog or mist in several parts of England and France, and with rain at some of our own western stations, as well as in the NW. of France. Sky clearing later in the SE. of England, but rain falling in the W. and SW. of our Islands generally, and also in many parts of France, – heavily in the S. of Ireland. Thunderstorm occurring at Lyons, and lightning seen in evening at Valencia (Ireland).

Temperature falls in most places. Morning readings highest 73° at Malta, 72° at Barcelona and Patras, and 70° at Palermo, Athens and Algiers; above 60° over Sn. Europe generally, and also in the Scilly and Channel Islands. Lowest 31° at Moscow, 34° at Archangel, and 36° at Hernösand and Kuopio. Rising during day to between 60° and 65° in many parts of the United Kingdom to 66° at Cambridge, and to 67° at Scilly; exceeding 70° at some of the French stations, and reaching 78° at Perpignan. Frost occurring over central England at night.

Wind E. ¾ over the greater part of England, the Netherlands and Germany, and fresh in force on our east coasts; SE. ¾ in the west and north of our Islands, with a moderate gale at Donaghadee. Light to moderate from the Nwd. over Sweden and Finland, and from the NWwd. in the south of Russia. S. ¾ or SW. ¾ in Greece and Italy; variable over the Spanish peninsula and the south of France. Subsequently increasing to a moderate gale from the SEwd. in the south of Ireland; shifting to the Wwd. in the west of France.

Barometer highest 30.32 ins. at Bodö; 30.2 ins. and upwards in an anticyclone lying over nearly the whole of Scandinavia; 30.1 ins. and upwards in another system off the Portuguese coasts. Lowest 29.7 ins. and less in a shallow depression off the SW. of Ireland; 29.9 ins. and less in a long trough stretching from the Bay of Biscay across the S. of France and Nrn. Italy. No important change occurring over Wrn. Europe later but new disturbance advancing to the W. of Ireland in evening.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday 10th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·09	43	2	0	0	30·01	−·05	38	36	−2	2	0	b	*	0	*	43	34	0·04
	Hernösand ...	30·13	43	2	0	0	30·17	+·07	37	37	+2	2	0	b	*	0	*	55	30	—
	Stockholm ...	30·10	46	2	0	0	30·19	+·07	48	46	+6	SE	2	0	*	0	*	52	41	—
	Wisby	30·13	46	NE	4	0	30·20	+·07	46	43	−2	ESE	2	0	*	0	*	48	43	—
	Karlstad ...	30·11	42	NW	1	b	30·18	−·06	43	42	+6	N	2	0	*	b	*	*	*	—
	Bodö	30·17	47	2	0	0	30·15	−·01	46	46	0	W	4	r	2	0	*	47	41	0·12
	Christiansund ...	30·24	45	ESE	2	bc	30·21	−·06	45	43	+2	ESE	2	f	3	bc	*	50	43	—
	Skudesnaes ...	30·19	46	2	0	b	30·17	−·05	50	48	+1	N	2	c	1	b	*	54	43	*
	Færder (Christiania Fjord)	30·13	51	WSW	3	b	30·15	−·07	45	43	+2	NE	4	c	2	b	*	58	43	—
	Skagen (The Scaw)	30·17	47	NW	1	b	30·16	−·07	51	49	+2	W	1	c	0	b	*	54	45	—
	Fanö	30·21	46	2	0	b	30·19	−·01	43	43	−1	E	1	f	*	b	*	59	41	—
	Sumburgh Head	30·07	52	SE	4	b	30·09	−·01	51	50	−1	SE	1	0	4	b	*	55	49	0·02
	Stornoway ...	29·93	53	WSW	2	r	30·01	+·11	45	44	−8	2	0	f	0	c,r	2·8	58	42	0·40
	Wick	30·04	54	SE	4	c	30·05	+·01	53	50	−1	SE	4	0	3	c	*	56	50	—
	Nairn	29·97	53	2	0	bc	30·03	+·02	48	47	+3	2	0	c	0	bc	*	63	43	0·08
	Aberdeen ...	30·04	52	SSE	3	og	30·08	+·02	53	49	−1	S	3	c	3	p,og	0·6	56	51	0·02
BRITISH ISLANDS.	Leith	29·98	55	ESE	3	0	30·07	+·06	48	48	−5	NW	3	m	*	0	*	62	44	0·14
	Shields	30·03	54	SE	2	om	30·07	+·02	50	49	−5	SSW	2	0	2	om	*	57	47	—
	Spurn Head ...	30·03	55	ESE	3	c	30·08	+·02	51	50	−3	SW	1	f	3	c,o	*	58	50	—
	York	30·03	50	E	1	0	30·09	+·04	49	48	−3	WSW	1	f	*	c,o	5·1	60	48	—
	Loughborough ...	30·04	50	W	1	0	30·11	+·07	49	48	+9	WNW	1	omw	*	c,o2,om	*	61	40	0·05
	Ardrossan ...	29·96	50	NE	2	tm	30·08	+·11	50	49	−1	NNE	1	cm	1	tm	*	54	46	0·15
	Malin Head ...	29·91	55	NW	2	bc	30·02	+·21	51	50	0	SSW	3	bc	2	bc	*	56	49	0·22
	Belmullet ...	29·97	55	WSW	2	bc	30·10	+·22	50	48	−5	WNW	1	b	*	bc	*	60	44	0·03
	Donaghadee ...	29·93	50	WSW	3	0	30·07	+·17	44	44	−9	W	3	bc	1	0	*	54	37	0·36
	Liverpool (Bidston)	29·99	48	SE	2	0	30·09	+·11	47	45	−1	SE	1	b	3	op	*	53	42	0·07
	Holyhead ...	29·96	56	WSW	2	bc	30·08	+·20	52	51	−1	2	0	cm	0	bc	*	59	48	0·17
	Parsonstown ...	30·00	53	2	0	b	30·11	+·21	45	44	−6	2	0	b	*	b	8·7	62	42	—
	Valencia ...	30·01	58	S	2	b	30·14	+·20	47	45	−4	NE	1	bc	4	b	7·9	62	43	0·02
	Roche's Point ..	30·05	57	W	2	b	30·14	+·19	50	48	−2	NW	1	b	2	b	*	64	48	—
	Pembroke (St. Ann's Hd.)	30·03	58	NW	4	b	30·10	+·23	54	53	−2	E	2	b	2	b	8·5	59	54	0·12
	Scilly	30·05	59	WNW	1	c	30·11	+·19	55	54	−5	WSW	1	cf	2	c	9·0	63	53	0·04
	Prawle Point ...	30·06	54	NW	3	c	30·13	+·21	53	52	−5	NNW	2	0	2	cfd,c	*	66	48	0·03
	Jersey (St. Aubin's)	30·04	61	WNW	3	b	30·12	+·10	56	54	−4	ENE	1	cm	1	r,c,b	*	64	51	0·07
	Hurst Castle ...	30·00	55	NNW	2	bm	30·12	+·13	47	47	−10	NE	2	f	1	2,bm	*	61	46	0·09
	Dungeness ...	30·02	54	SSE	1	0	30·09	+·07	51	50	+4	N	2	cm	1	c,o	*	61	47	0·04
	North Foreland	30·03	54	NE	1	0	30·10	+·06	54	52	−1	NW	2	0	2	bc,o	*	58	50	0·05
	London (Brixton) ...	30·03	52	ESE	1	tm	30·12	+·07	48	48	−2	2	0	fg	*	c,or,omw	1·5	63	48	0·14
	Oxford	30·07	50	NW	1	0	30·13	+·10	44	44	+1	NW	1	of	*	c,or	*	57	42	0·14
	Cambridge ...	30·04	54	ESE	1	0	30·12	+·06	50	46	+6	2	0	b	*	p,o	4·6	65	42	—
	Yarmouth ...	30·02	54	ESE	4	c	30·07	+·02	48	47	−6	WNW	2	bcm	3	c	*	56	44	—
GERMANY & HOLLAND.	Cuxhaven ...														*		*			
	Berlin	30·17	48	SE	2	b	30·20	+·01	42	40	0	SE	1	b	*	b	*	55	39	—
	Wiesbaden ...	*	*	*	*	*	30·14	+·08	46	44	−5	2	0	c	*	*	*	57	43	—
	Munich... ..	30·10	49	E	1	0	30·20	+·16	48	48	+2	W	1	c	*	0	*	54	46	0·04
	The Helder ...	30·03	44	2	0	m	30·05		50	47		ESE	1	b	0	m	*	54	43	—
BELGIUM.	Brussels ..	*	*	*	*	*	30·07	+·03	50	49	+6	2	0	f	*	b	*	62	44	0·04
	Cape Gris Nez ...	?	55	E	1	r	?	?	55	51	+8	N	3	0	3	r	*	61	45	—
	Paris	30·09	58	SW	2	r	30·08	+·06	53	53	−1	WNW	1	f	*	r	*	64	52	0·08
	Brest	30·09	59	N	1	b	30·13	+·16	52	52	−9	N	1	0	3	b	*	63	48	—
	Lorient... ...	30·08	60	NNE	4	0	30·12	+·11	54	54	−6	N	3	0	5	0	*	72	50	0·08
FRANCE &	Rochefort ...	30·11	64	SW	3	bc	30·04	−·04	61	60	+3	WSW	3	0	*	bc	*	70	55	0·12
	Belfort	30·09	52	2	0	r	30·12	+·11	49	49	−1	W	1	f	*	r	*	63	49	0·12
	Lyons	30·13	57	WNW	1	b	30·14	+·12	51	49	−5	ENE	1	b	*	b	*	64	48	—
	Nice	29·95	62	2	0	bc	30·01	+·19	58	56	−1	E	3	bc	2	bc	*	70	59	—
	Perpignan ...	30·10	64	NW	3	b	30·10	+·08	53	50	−7	SW	2	b	*	b	*	70	50	—
	Biarritz ...	30·11	65	NW	3	b	30·03	−·04	58	56	−4	ESE	3	bc	4	b	*	70	55	—
PENINSULA.	Corunna ...																*			
	Lisbon	30·12	64	NNW	4	b	30·08	−·10	60	59	−4	2	0	b	*	b	*	73	59	—
	Azores (P. Delgada)	30·19	64	NNE	4	bc	30·21	+·16	64	58	+1	NNE	1	c	2	bc	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1·1 *hrs;*

WEATHER CHARTS

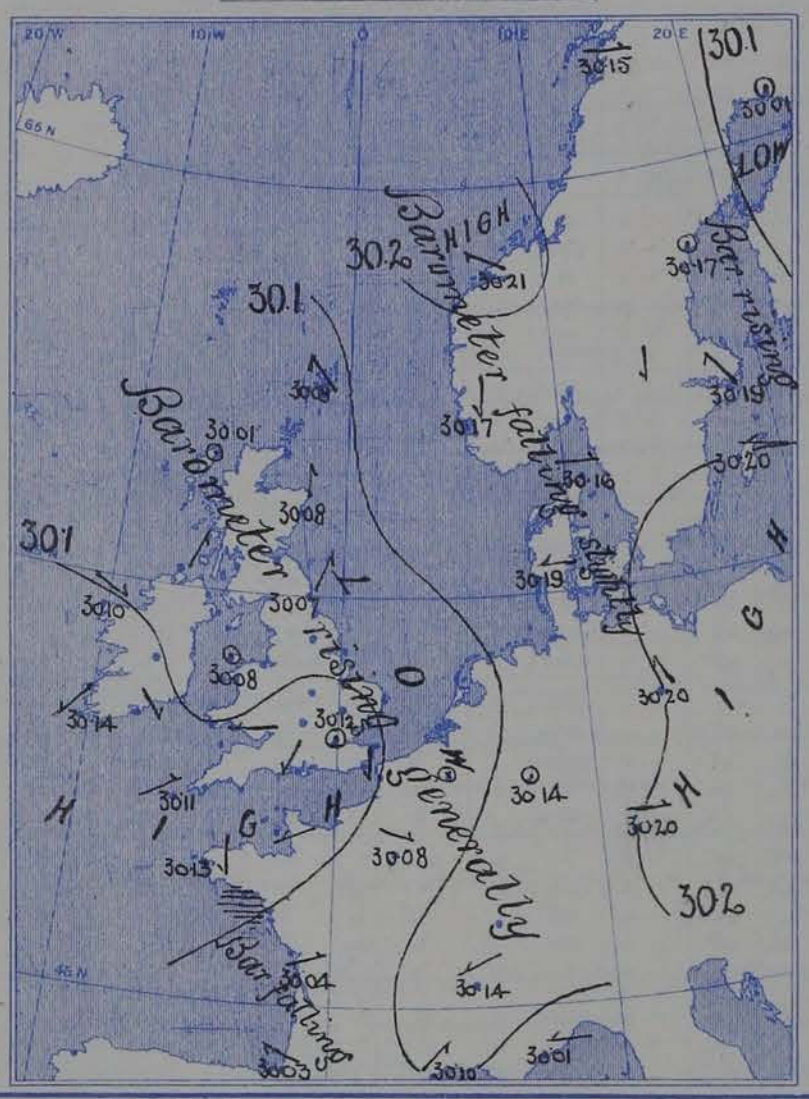
FOR Monday, 10th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

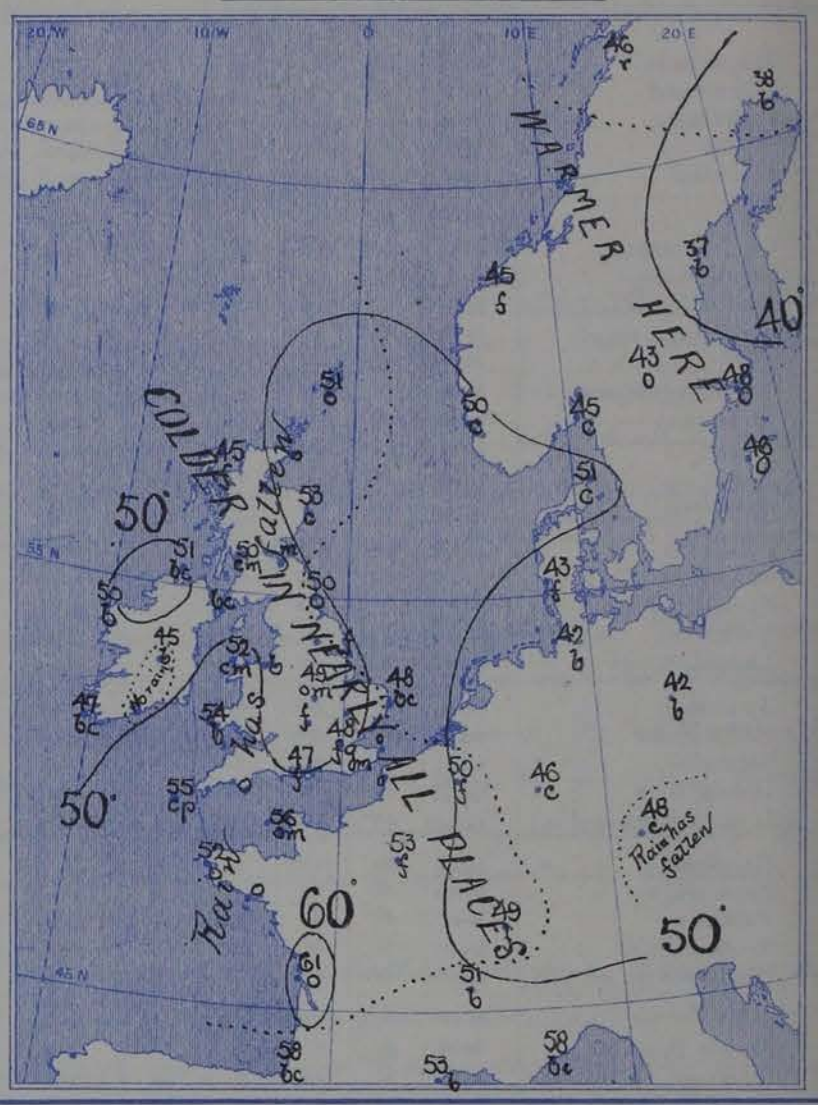
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF OCTOBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in the W. of Norway and also over E^rn. Germany and the Baltic; 30.1 ins. and upwards in a new anticyclone which has appeared over the S. of our Islands and the N. of France.
Lowest 30.0 ins. and less (apparently) in Lapland.
Gradients slight. Barometer rising generally, but falling a little on the E^rn. shores of the North Sea, and also in the SW. of France.

TEMPERATURE

Highest 61° at Rochefort, 58° at Nice and Biarritz, 56° at Jersey, 55° at Scilly, and 54° at Pembroke & Lorient.
Lowest 37° at Hernösand, 38° at Haparanda, and 42° at Berlin; lowest in our Islands 44° at Oxford and Donaghadee, and 45° at Parsonstown.
The maxima registered yesterday were below 60° on many parts of our N^rn., E^rn. and SE^rn. coasts; at Leith, however, the thermometer rose to 62°, and at Nairn to 63°.

WIND

Rather variable in our Islands, but chiefly S^ly. on our northern coasts, and N^ly. in the south, as well as in the north of France.
Calm in the Gulf of Bothnia; light from the E^wd. or NE^wd. over Denmark and the southern parts of Scandinavia; variable in Germany.

WEATHER

Cloudy or dull over England, Scotland and the W^rn. parts of the Continent generally, with fog or mist in many places, and rain at Bodö.
Fine in Ireland and Wales, as well as in Germany the S. of France & the N. of Sweden.
Rain fell yesterday over the greater part of our Islands, the Netherlands and the N. of France. Over England, however, the amount was mostly small and in many parts of our N^rn. and E^rn. counties there was none at all.

SEA

Slight or smooth generally, but moderate at Sumburgh Hd. and Valencia (Ireland) and rather rough at Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The "V shaped" depression which advanced over our Islands yesterday has almost entirely dispersed, and an anticyclone has spread from the SW^wd. over all our more S^rn. districts. At present this is inclined to extend further northward, so that fair weather seems again likely to prevail for a time in most places.

FORECASTS

For the 24 hours ending at NOON on 11th. OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly. to SW^ly. winds, light; fair generally, but some fog or mist.
2 ENGLAND N.E.	SW^ly. to W^ly. winds, light; dull and misty at first, then fair.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N^ly. to NE^ly. winds, light; dull and misty at first, then fair. Cold at night with local fogs.
6 SCOTLAND WEST 7 ENGLAND N.W.	Light variable airs; fair generally, but some fog or mist.
8 ENGLAND S.W.	Variable breezes, finally NE^ly.; fair generally.
9 IRELAND NORTH	Same as No^s. 6 and 7.
10 IRELAND SOUTH	N^ly. and NE^ly. winds, light; fair generally. At 10.20 am. today to district 10. Lower Cone.
WARNINGS	

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.21	53	48	WNW	4	b	1
Sumburgh Head							
Stornoway	29.89	57	57	SW	2	c	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.88	56	54	NW	2	bc	2
Belmullet	29.94	60	54	W	1	c	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.99	62	60	SSW	3	c	3
Hurst Castle ...							
Dungeness ...							
North Foreland	30.03	56	52	NNE	2	bc	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.11	69	64	SW	3	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

Summary of changes in the Weather over Europe from the 2nd to 8th Oct.

At the beginning of the week barometrical pressure was highest 30.4 ins. and upwards over central Russia, but high 30.3 ins. and upwards over England, the Netherlands and the Sn. parts of the North Sea; the two areas being united by a "col" stretching across the Baltic and Wn. Russia. The lowest pressures were found in a cyclonic system lying off the W. of Norway and as this moved eastwards the high pressure area over Russia completely gave way. During the remainder of the time the anticyclone over our Islands and central Europe moved very slowly northwards, its influence being shown, however, in all but the extreme W. and SW. regions until very near the end of the week. Over the more Sn. parts of Wn. Europe the winds were E. or NE., while in the north they were at first W., then S. and finally SE. The weather, though fine in places, was upon the whole dull and gloomy, with a good deal of fog or mist, the latter yielding in some places a measurable quantity of water in the rainguage. After the 5th a depression began to spread over our Islands from the SW., and for a time a considerable increase of wind from the SE. took place in Ireland, with rain over the SWn. parts of the Kingdom generally. On the night of the 7th the depression began to disperse, but at the close of the week a new disturbance was approaching the S. of Ireland, where the wind was again increasing from S. and SE. with heavy rain.

Over the S. of France and Nn. Italy heavy falls of rain were produced by shallow depressions which appeared over Spain and the Mediterranean, the chief instance occurring on the 4th when over an inch was measured at several stations in the S. of France. Thunder and lightning were also experienced at times in various parts of Sn. Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 11th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.92	41	2	0	0	29.90	−.11	41	40	+3	NNW	2	c	*	0	*	50	34	—
	Hernösand ...	30.10	41	2	0	b	29.99	−.18	42	40	+5	W	2	b	*	b	*	54	32	—
	Stockholm ...	30.21	46	2	0	0	30.07	−.12	48	46	0	SW	4	b	*	0	*	52	43	—
	Wisby	30.25	48	S	4	0	30.17	−.03	50	48	+4	WNW	4	c	*	0	*	52	41	—
	Karlstad ...	30.17	48	2	0	c	30.12	−.06	45	43	+2	WNW	2	0	*	c	*	*	*	—
	Bodö	30.15	46	W	4	r	30.08	−.07	45	44	−1	W	4	0	2	r	*	46	43	0.16
	Christiansund ...	30.22	44	ESE	1	b	30.20	−.01	45	43	0	SSW	1	0	2	b	*	45	43	—
	Skudesnaes ...	30.19	48	2	0	b	30.14	−.03	43	42	−7	2	0	bc	0	c.b	*	56	43	*
	Færder (Christiania Fjord)	30.17	48	W	1	b	30.12	−.03	44	44	−1	WSW	2	m	2	b	*	48	44	—
	Skagen (The Scaw)	30.20	47	W	1	b	30.16	.00	45	43	−6	W	1	b	0	b	*	55	39	—
	Fanö	30.20	47	E	3	c	30.10	−.09	46	45	+3	E	4	c	*	c	*	55	43	—
BRITISH ISLANDS.	Sumburgh Head	30.12	48	SE	1	0	30.14	+.05	47	46	−4	NE	1	b	3	0	*	54	43	0.03
	Stornoway ...	30.07	49	2	0	c	30.12	+.11	46	45	+1	2	0	c	0	c	2.1	57	41	0.03
	Wick	30.08	52	SE	2	0	30.13	+.08	47	46	−6	NW	1	0	1	0	*	55	44	0.10
	Nairn	30.10	50	E	1	bc	30.11	+.08	49	48	+1	W	1	bm	1	bcm	*	59	39	—
	Aberdeen ...	30.10	52	SE	2	c	30.11	+.03	47	46	−6	WNW	3	c	2	c.p	0.2	55	45	0.18
	Leith	30.07	51	ESE	1	0	30.09	+.02	48	47	0	S	2	m	*	0	*	57	43	—
	Shields	30.09	53	SE	1	0	30.07	.00	44	44	−6	WSW	2	f	2	m.o	*	56	40	—
	Spurn Head ...	30.07	54	NE	1	c	30.02	−.06	50	50	−1	NW	4	cw	3	c	*	58	46	—
	York	30.08	53	E	1	b	30.07	−.02	41	41	−8	2	0	f	*	b.c	3.1	57	37	—
	Loughborough ...	30.08	53	W	1	0	30.07	−.04	47	47	−2	N	1	ofg	*	bc.of.r	*	62	42	0.12
	Ardrossan ...	30.08	53	2	0	b	30.11	+.03	45	45	−5	2	0	of	0	p.b	*	58	41	0.02
	Malin Head ...	30.08	53	NNW	4	bc	30.11	+.09	51	49	0	NNW	4	cpm	2	bc	*	56	49	0.02
	Belmullet ...	30.13	50	SW	1	op	30.20	+.10	48	46	−2	SSW	1	b	*	bc.op	*	58	40	0.03
	Donaghadee ...	30.08	49	WNW	2	c	30.11	+.04	48	47	+4	NW	3	bc	1	c	*	56	42	0.05
	Liverpool (Bidston)	30.09	53	W	1	0	30.08	−.01	49	48	+2	2	0	0	3	b.op	*	59	46	0.06
	Holyhead ...	30.08	52	NNW	1	b	30.09	+.01	50	47	−2	NE	3	r	2	cp.b	*	57	46	0.32
	Parsonstown ...	30.18	49	2	0	c	30.19	+.08	40	40	−5	2	0	b	*	c.dr	7.3	58	39	0.07
	Valencia ...	30.16	50	2	0	b	30.22	+.08	49	46	+2	NNE	1	bc	4	cr.b	4.3	58	40	0.13
	Roche's Point ..	30.13	54	SE	1	c	30.18	+.04	46	43	−4	NW	3	b	3	b.cp	*	62	44	0.06
	Pembroke (St. Ann's Hd.)	30.10	54	NNW	3	b	30.09	−.01	53	50	−1	N	4	c	3	b	9.5	61	50	—
	Scilly	30.11	58	NNW	3	bc	30.13	+.02	53	50	−2	NNW	4	cp	2	bc	7.9	62	50	—
	Prawle Point ...	30.10	54	WNW	3	bc	30.09	−.04	52	49	−1	NNW	3	bc	2	bc.b	*	59	44	—
	Jersey (St. Aubin's)	30.09	58	N	3	og	30.07	−.05	52	51	−4	WNW	2	bc	2	og.b.p	*	62	47	0.09
	Hurst Castle ...	30.09	53	2	0	bcm	30.04	−.08	49	48	+2	NNW	1	cm	1	cm.bl	*	56	47	—
	Dungeness ...	30.07	55	ENE	1	0	30.01	−.08	43	43	−8	NNW	2	f	1	c.o.f	*	59	39	—
	North Foreland	30.10	52	2	0	c	30.02	−.08	48	47	−6	W	2	c	1	b.c.fm	*	57	43	—
	London (Brixton) ...	30.09	50	NE	1	bm	30.03	−.09	46	45	−2	2	0	f	*	o.bm.fm	0.0	58	44	—
	Oxford	30.12	46	2	0	0	30.05	−.08	48	48	+4	WSW	1	of	*	o.r	*	50	44	0.10
	Cambridge ...	30.09	52	SW	1	bc	30.04	−.08	44	44	−6	2	0	fm	*	bc	3.6	59	39	—
	Yarmouth ...	30.06	55	N	2	bc	29.98	−.09	50	49	+2	WNW	3	c	2	b.bc	*	58	45	—
GERMANY & HOLLAND.	Cuxhaven ...	30.12	54	ESE	4	bc	30.01		45	43		ESE	5	r	*	bc	*	52	45	—
	Berlin	30.21	47	SE	1	b	30.15	−.05	43	40	+1	SE	2	0	*	b	*	55	39	—
	Wiesbaden ...	*	*	*	*	*	29.95	−.19	52	?	+6	E	2	r	*	*	*	55	46	0.28
	Munich... ..	30.16	47	E	2	b	30.04	−.16	44	44	−4	E	3	c	*	b	*	57	44	—
	The Helder ...	30.04	51	2	0	c	29.93	−.12	50	48	0	2	0	m	0	c	*	54	50	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.99	−.08	46	46	−4	SSE	1	f	*	0	*	59	40	—
	Cape Gris Nez ...	?	55	NE	1	0	?	?	54	51	−1	NNE	1	m	1	0	*	61	52	—
	Paris	30.04	55	NE	2	bc	30.04	−.04	49	48	−4	NW	1	bc	*	bc	*	61	46	—
	Brest	30.12	58	N	1	c	30.13	.00	50	47	−2	N	1	bc	1	c	*	61	45	—
	Lorient... ...	30.10	59	N	4	c	30.12	.00	50	50	−4	N	2	b	3	c	*	64	48	—
FRANCE &	Rochefort ...	30.06	59	N	3	r	30.07	+.03	55	55	−6	N	4	0	*	r	*	64	54	0.16
	Belfort	30.04	58	2	0	0	29.94	−.18	54	53	+5	ENE	1	m	*	0	*	67	49	0.08
	Lyons	30.05	59	S	1	bd	30.00	−.14	54	53	+3	SSE	1	0	*	bc	*	66	51	—
	Nice	30.05	62	2	0	c	30.06	+.05	59	56	+1	E	2	bc	1	c	*	70	55	—
	Perpignan ...	30.02	62	SE	1	b	29.96	−.14	57	54	+4	W	2	0	*	b	*	75	50	—
	Biarritz ...	30.01	64	N	4	0	30.03	.00	58	57	0	NNW	6	r	5	0	*	70	55	0.32
PENINSULA.	Corunna ...																*			
	Lisbon	30.07	64	N	5	0	30.08	.00	63	57	+3	N	6	b	*	0	*	73	61	—
	Azores (P. Delgada)	30.25	63	NNE	3	b	30.21	.00	64	58	0	NNE	1	b	2	b	*	72	61	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5.4 hrs;

WEATHER CHARTS

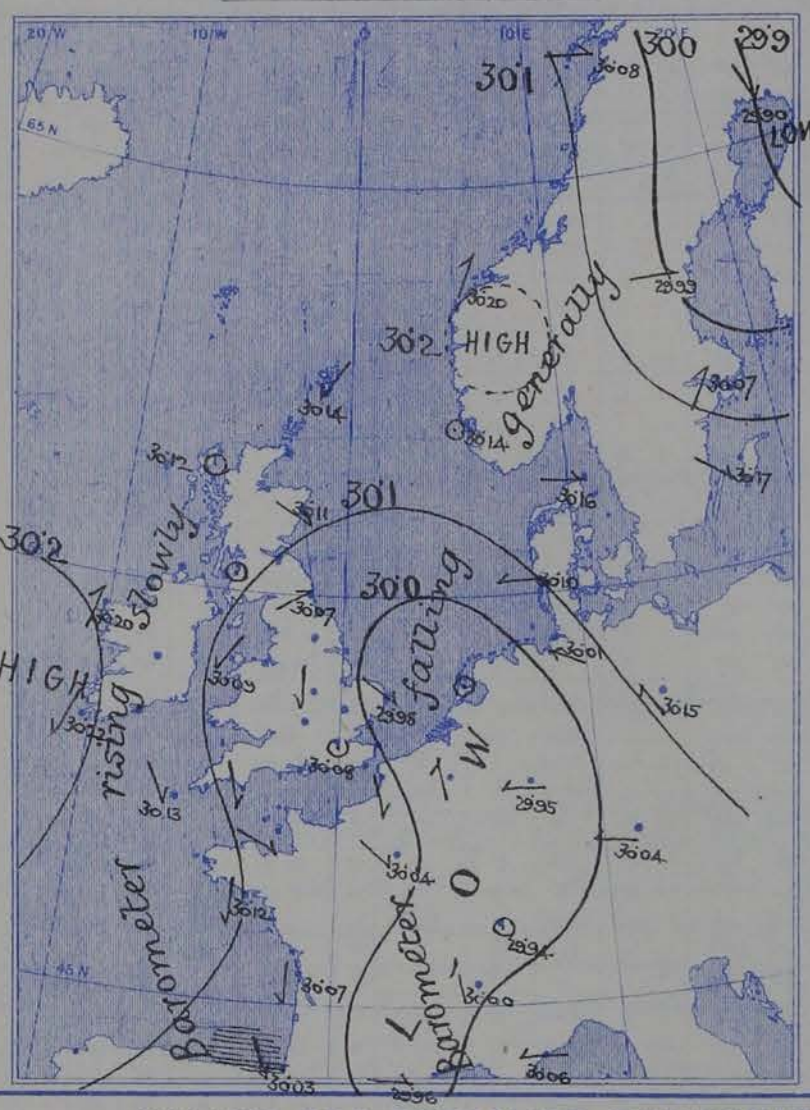
FOR Tuesday, 11th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

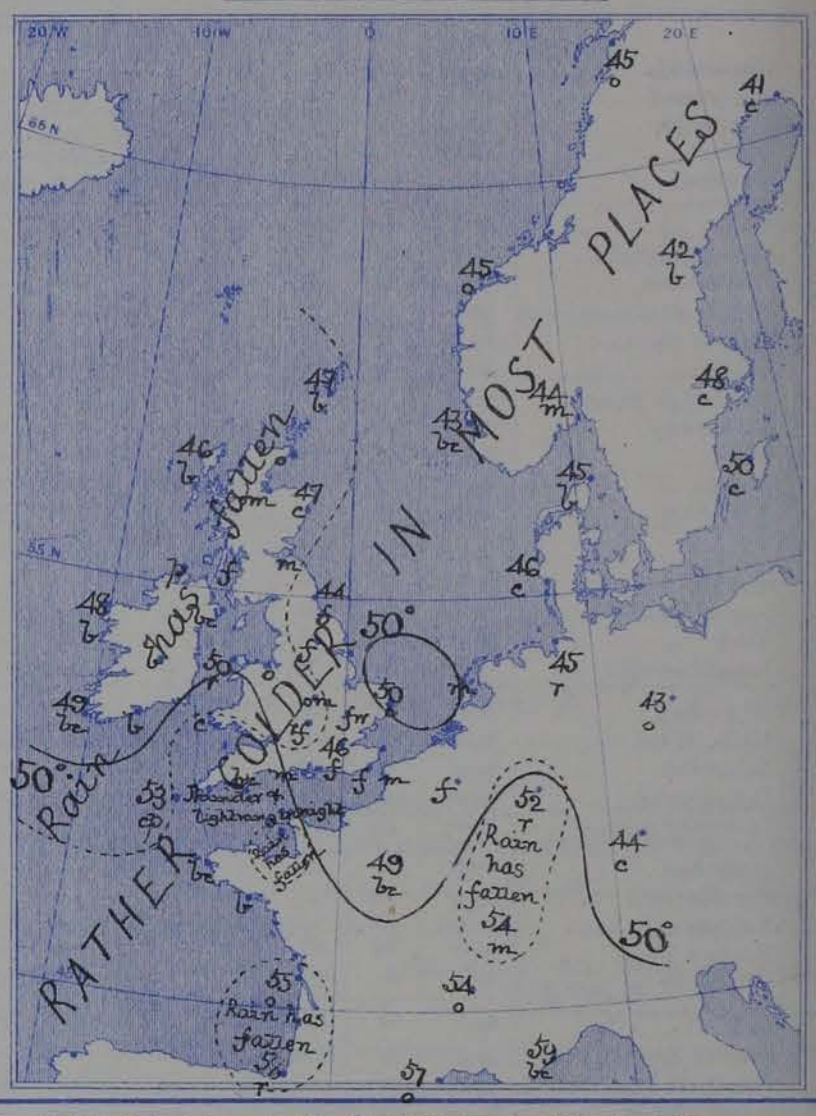
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— *A dotted line separates areas where rain has fallen from those withou rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and upwards in the W. of Ireland and also in some parts of the W. of Norway. Lowest 29·9 ins. and less over Lapland; 30·0 ins. in a shallow but complex depression lying over the Netherlands, W^rn Germany and the central parts of France. Gradients slight. Barometer rising a little in the W. and N. of our Islands, and also in the W. of France, but falling in most other parts of our area.

TEMPERATURE

Highest 63° at Lisbon, 59° at Nice, 58° at Biarritz, and 57° at Perpignan; highest in our Islands 53° at Pembroke and Scilly.
Lowest (1) 40° at Parsonstown and 41° at York; (2) 41° at Haparanda, and 42° at Hernösand; (3) 43° at Berlin, and 44° at Munich.
The maxima registered yesterday were below 60° in most parts of the United Kingdom; at Oxford the thermometer did not exceed 50°.

WIND

Light to moderate from the N^wd. or NW^wd. over the greater part of our Islands, and also in the N. and W. of France, but calm or variable over the central parts of England. E^ly over Germany and the southern parts of Denmark; variable in the west of Norway; W^ly or NW^ly in Sweden.

WEATHER

Fine in Ireland and also in the Shetlands, the Hebrides and the N. of France. Foggy over the inland parts of England, with rain at Oxford; cloudy in most other parts of western Europe, with rain at Cuxhaven and Wiesbaden and also at Biarritz. Since yesterday morning a little rain has fallen at most of our western and extreme northern stations and also in some parts of central England. Thunder and lightning occurred last night at Hurst Castle and lightning only at Prawle Pt.

SEA

Slight or smooth generally, but rather rough at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over France and the Netherlands appears to be increasing slightly in depth, and may possibly occasion rain at some of the English stations. The general distribution of pressure is again becoming very complex.

FORECASTS

For the 24 hours ending at NOON on 12TH. OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N^ly winds, light, fair generally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	N^ly and NW^ly winds moderate, fair at first, doubtful later, possibly some rain.
6 SCOTLAND WEST	Variable or N^ly airs, cloudy, some mist or fog.
7 ENGLAND N.W.	
8 ENGLAND S.W.	N^ly winds moderate or fresh, fair generally.
9 IRELAND NORTH	N^ly and NW^ly winds, moderate, fair generally.
10 IRELAND SOUTH	
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, **at first from** the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·18	56	51	WNW	2	c	1
Sumburgh Head	30·11	53	51	SE	2	o	4
Stornoway	30·04	57	54	2	0	c	0
Aberdeen	30·09	54	51	SE	2	c	3
Shields	30·08	55	52	2	0	m	2
Ardrossan	30·07	57	56	NW	2	p	1
Malin Head ...	30·06	54	50	NW	4	bc	2
Belmullet	30·13	58	50	W	1	bc	*
Holyhead	30·08	55	53	NW	1	cp	0

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·15	55	50	WSW	3	cv	5
Scilly	30·11	61	56	NW	2	bc	3
Jersey	30·11	62	56	NNE	2	c	2
Hurst Castle ...	30·08	55	54	NE	1	cm	1
Dungeness ...	30·07	58	54	E	1	c	1
North Foreland	30·09	57	54	NW	1	b	1
London (Westminster)	30·10	55	52	NE	2	o	*
Yarmouth ...	30·07	58	53	NNE	3	b	3
Rochefort ...	30·05	62	60	W	2	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over England, Scotland and the W^rn parts of the Continent generally, with fog or mist in many places and rain at Bodö. Fine in Ireland and Wales and also over the Gulfs of Bothnia and Finland and nearly the whole of Germany and S^rn Europe. Dull at most of the Russian and Austrian stations, with rain at Lemberg and Hermanstadt and snow at Moscow. A little rain falling later in the W. and extreme N. of our Islands generally as well as in some parts of central England; thunder and lightning occurring at rough at Hurst Castle and lightning only at Prawle Point.

Temperature falling in most places. Morning readings highest 71° at Barcelona, 70° at Algiers, 69° at Malta, and 68° at Sfax; above 60° at most of the Mediterranean stations. Lowest 28° at Helsingfors, 30° at Hangö and St Petersburg, and 32° at Kuopio and Moscow; below 40° in many parts of Austria and S. Germany. Daily maxima below 60° over nearly the whole of the United Kingdom, but thermometer exceeding that point on our SW. coasts and in France; exceeding 70° over the Spanish peninsula and the extreme S. of France, and reaching 75° at Perpignan.

Wind light and rather variable in our Islands, but chiefly S^ly on our northern coasts and N^ly in the south, as well as in the north of France. Calm in the Gulf of Bothnia, and SW^ly in the extreme north of Russia; N^ly to E^ly over the Baltic and the south of Scandinavia, variable in Germany and Austria; N^ly or NW^ly over Italy and the south of Russia; E^ly or NE^ly in the south of France; variable over the Spanish peninsula. No important change occurring during day.

Barometer highest 30.1 ins. to 30.2 ins. and upwards in an anticyclone lying over nearly the whole of N^rn and central Europe, and also in two other systems lying respectively over Spain and over the S. of our Islands and the N. of France. Lowest 29.7 ins. and less in a depression over central Russia; 29.9 ins. and less in a small system near Malta. No important change occurring later over W^rn Europe, but barometer falling slightly in France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 12th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.90	35	N	2	0	29.90	.00	32	30	-9	N	2	b	*	0	*	43	32	-
	Hernösand ...	29.94	45	W	0	r	29.89	-.10	41	39	-1	N	2	bc	*	r	*	55	34	-
	Stockholm ...	29.99	46	W	2	0	29.91	-.16	45	43	-3	N	2	c	*	0	*	50	45	-
	Wisby	30.04	51	WNW	4	0	29.93	-.24	48	45	-2	NNW	4	0	*	0	*	52	45	-
	Karlstad ...	30.05	39	N	2	f	29.99	-.13	36	35	-9	N	2	f	*	f	*	*	*	-
	Bodö	29.99	45	W	0	r	30.04	-.04	42	38	-3	NE	4	b	1	r	*	46	41	0.12
	Christiansund ...	30.17	47	SW	1	b	30.13	-.07	44	43	-1	W	0	f	2	b	*	48	43	0.08
	Skudesnaes ...	30.07	49	NNW	2	bc	30.01	-.13	46	45	+3	N	1	c	1	b.bc	*	55	43	*
	Færder (Christiania Fjord)	30.06	44	NE	1	f	29.99	-.13	46	43	+2	NNE	4	b	2	f	*	46	41	-
	Skagen (The Scaw)	30.06	50	SW	1	0	29.97	-.19	50	49	+5	ENE	1	0	0	0	*	54	45	-
	Fanö	29.95	48	E	2	r	29.90	-.20	46	45	0	E	2	c	*	r	*	54	45	0.08
	Sumburgh Head	30.11	45	N	1	c	30.06	-.08	48	46	+1	NE	3	0	4	c	*	53	43	0.01
	Stornoway ...	30.12	50	ENE	1	c	30.06	-.06	43	42	-3	W	0	f	0	c	6.1	59	39	-
	Wick	30.11	43	S	1	bc	30.06	-.07	49	48	+2	S	2	0	1	bc	*	58	37	0.10
	Nairn	30.15	47	E	1	bc	30.09	-.02	44	44	-5	W	0	c	1	bc	*	54	35	0.02
	Aberdeen ...	30.11	48	NE	3	bc	30.06	-.05	47	46	0	NW	3	bc	2	cp	1.6	54	41	0.05
BRITISH ISLANDS.	Leith	30.08	52	SSE	2	0	30.06	-.03	45	44	-3	WNW	1	m	*	0	*	57	40	0.04
	Shields	30.05	51	NNE	2	c	30.02	-.05	48	47	+4	NNW	2	op	2	bc.c.r	*	55	43	0.03
	Spurn Head ...	29.99	54	N	4	c	29.95	-.07	49	49	-1	NW	4	cp	4	c	*	57	46	0.03
	York	30.04	50	N	1	b	30.02	-.05	45	44	+4	NNW	1	b	*	b	4.2	57	40	0.01
	Loughborough ...	30.04	52	N	1	c	30.03	-.04	43	42	-4	WNW	1	bw	*	c m.b.c	*	57	38	-
	Ardrossan ...	30.09	51	NW	1	bf	30.08	-.03	45	44	0	W	0	bfw	0	m.bc.bf	*	56	39	0.03
	Malin Head ...	30.12	53	NNW	3	bc	30.04	-.07	46	45	-5	SSW	2	b	1	bc	*	54	45	-
	Belmullet ...	30.18	51	NNE	1	b	30.01	-.19	48	44	0	SE	3	c	*	b	*	60	41	0.01
	Donaghadee ...	30.10	53	NNW	3	b	30.07	-.04	45	45	-3	WSW	3	c	1	b	*	59	41	0.01
	Liverpool (Bidston)	30.07	51	W	0	c	30.06	-.02	49	45	0	W	0	b	?	cm	*	54	43	-
	Holyhead ...	30.09	54	N	3	c	30.06	-.03	52	49	+2	NE	2	b	1	bc.c	*	55	47	0.05
	Parsonstown ...	30.17	49	W	0	b	30.07	-.12	35	35	-5	W	0	bc	*	b	8.4	57	32	-
	Valencia ...	30.18	52	W	0	b	29.98	-.24	54	50	+5	SE	4	bc	4	bv.b	9.6	58	41	-
	Roche's Point ..	30.18	50	N	2	b	30.05	-.13	55	50	+9	S	3	bc	3	b	*	57	40	-
	Pembroke (St. Ann's Hd.)	30.11	52	N	4	b	30.04	-.05	54	52	+1	NNW	2	c	3	b	7.3	57	48	0.02
	Scilly	30.11	54	NNW	3	bc	30.07	-.06	54	49	+1	WNW	1	b	1	bc	8.1	57	49	0.01
	Prawle Point ...	30.06	51	NNW	3	bc	30.06	-.03	51	49	-1	N	1	b	2	cp.l	*	59	44	0.01
	Jersey (St. Aubin's)	30.03	52	WNW	3	bcp	30.04	-.03	52	49	0	NW	3	cgm	2	tlt.bl	*	61	49	0.19
	Hurst Castle ...	30.00	52	N	3	om	30.04	.00	45	45	-4	NNE	1	cm	1	bc.t.ol	*	58	42	0.01
	Dungeness ...	29.95	51	NNW	2	m	29.94	-.07	46	45	+3	NW	3	m	2	m.l.f	*	57	41	-
	North Foreland	29.95	54	W	2	c	29.92	-.10	51	49	+3	WNW	5	c	4	b.c	*	56	47	-
	London (Brixton) ...	29.99	50	NNW	1	bm	29.99	-.04	45	43	-1	NNW	1	bcm	*	o.bcm.b	0.0	53	42	-
	Oxford	30.05	46	NW	1	bc	30.03	-.02	42	41	-6	NW	1	bm	*	r.bcf	*	52	39	0.24
	Cambridge ...	30.00	50	NNW	1	b	29.98	-.06	44	43	0	NNW	2	bw	*	cp.b	3.0	60?	41	0.01
	Yarmouth ...	29.93	54	NNW	3	c	29.88	-.10	51	49	+1	NW	3	c	5	p.bc.r	*	57	48	0.79
GERMANY & HOLLAND.	Cuxhaven ...	29.89	47	SE	4	r	29.78	-.23	47	46	+2	E	4	r	*	r	*	48	45	0.75
	Berlin	29.92	49	E	3	0	29.76	-.39	46	46	+3	ESE	1	r	*	0	*	55	43	0.08
	Wiesbaden ...	*	*	*	*	*	29.82	-.13	49	47	-3	SW	1	0	*	*	*	54	46	0.16
	Munich... ..	29.87	51	W	2	0	29.88	-.16	43	43	-1	W	4	r	*	0	*	57	43	0.20
	The Helder ...	29.79	52	NE	1	m	29.73	-.20	50	49	0	ENE	4	r	5	m	*	59	50	0.24
BELGIUM.	Brussels ...	*	*	*	*	*									*		*			
	Cape Gris Nez...																*			
	Paris	29.96	53	WNW	3	0	29.97	-.07	43	43	-6	SW	2	bc	*	0	*	53	43	-
	Brest	30.11	54	N	2	b	30.08	-.05	51	49	+1	N	1	b	2	b	*	59	46	-
	Lorient... ...	30.09	54	NNW	5	bc	30.12	.00	51	50	+1	N	4	b	5	bc	*	55	48	0.04
FRANCE &	Rochefort ...	30.02	58	N	5	bc	30.07	.00	52	51	-3	N	3	b	*	bc	*	63	50	- ?
	Belfort	29.95	50	W	3	b	29.89	-.05	44	43	-10	WSW	3	m	*	b	*	53	44	0.51
	Lyons	30.03	50	NNW	1	r	30.00	.00	45	43	-9	WNW	1	r	*	r	*	63	42	1.14
	Nice	29.93	60	E	2	c	29.69	-.37	57	51	-2	E	2	c	3	c	*	70	54	0.08
	Perpignan ...	29.99	61	W	3	0	30.01	+.05	54	48	-3	W	3	b	*	0	*	72	53	-
	Biarritz ...	30.06	59	S	3	r	30.03	.00	54	51	-4	ESE	2	bc	5	r	*	64	52	0.28
PENINSULA.	Corunna ...																*			
	Lisbon	30.04	62	N	5	b	30.01	-.07	65	55	+2	NE	4	b	*	b	*	68	59	-
	Azores (P. Delgada)	30.06	68	SSW	2	bc	29.95	-.26	64	62	0	NW	2	r	4	bc	*	73	63	0.16

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

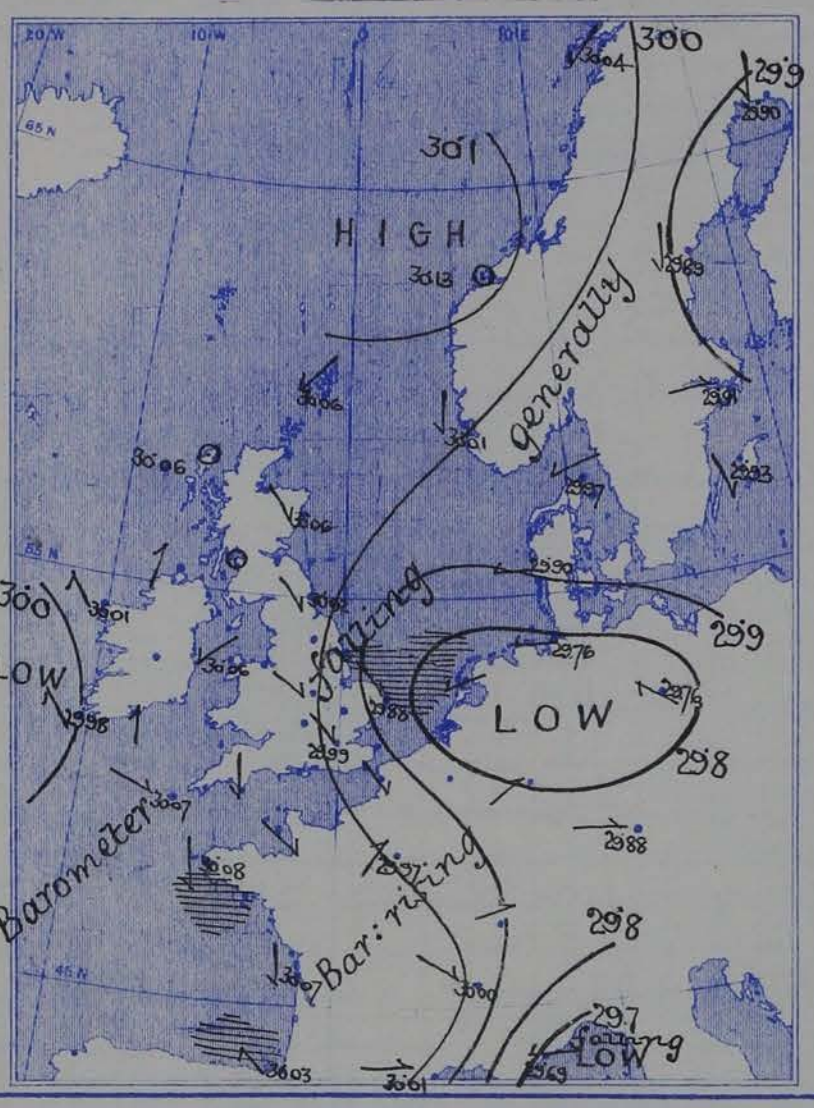
Bright Sunshine yesterday Southport 4.4 hrs;

WEATHER CHARTS

FOR Wednesday 12th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means 1871–95.	TEMPERATURE OF AIR. 1871–95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means. 1866–95.	BRIGHT SUNSHINE. Means, 1881–95: Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	–

* Extremes of temperature at these Stations are from observations made during the 15 years—1881–95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·13 ins. at Christiansund; 30·0 ins. and upwards over the greater part of our Islands and France.
Lowest, 29·7 ins. and less, in a small but rather deep depression over the Gulf of Genoa; 29·8 ins. and less, in a shallower disturbance over North Germany and the Netherlands; 29·9 ins. and less, in a still shallower system over the Gulf of Bothnia.
Gradients slight generally, but moderate over the east of England and the southern parts of the North Sea and steep over the southeast of France.
Barometer falling over Northwestern Europe, but rising a little at several of the French stations.

TEMPERATURE

Highest, (1) 65° at Lisbon, 57° at Nice, and 54° at Biarritz and Perpignan; (2) 55° at Rockcliffe, and 54° at Valencia (Ireland), Pembroke, and Leith.
Lowest, (1) 32° at Haparanda, 36° at Karlstad and 41° at Hernösand; (2) 35° at Parsonstown, and 42° at Oxford.
The maxima registered yesterday were below 60° in nearly all parts of the United Kingdom, and below 55° in several parts of Great Britain.

WIND

Light to moderate from the E. or NE. over the south of Norway, Denmark, North Germany and Holland, and from the NW. or N. over the eastern and southern parts of Great Britain and the north and west of France; W. or SW. in South Germany.
S. or SE. in Ireland; calm in the west of Scotland.

WEATHER

Fine in most parts of the United Kingdom, as well as in Scandinavia and the north and west of France, but with fog or mist in a few places.
Rainy over Germany and Holland, and showery on the east coasts of England.
Since yesterday morning showers have fallen in many parts of our Islands, and heavy rain at Yarmouth, as well as at some of the French and German stations.

SEA

Moderate to smooth generally, but rather rough at Yarmouth and the Helder, as well as in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday over the Netherlands has become somewhat deeper. A new disturbance is now approaching our western coasts, and freshening SE. winds and unsettled weather are probable in Ireland.

FORECASTS

For the 24 hours ending at NOON on 13th OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Light Variable breezes; fair generally but some mist or fog.
2 ENGLAND N.E. 3 ENGLAND EAST	NW. winds, backing later; some showers at first, then fair.
4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW. winds, backing later; fair generally, but perhaps local showers.
6 SCOTLAND WEST 7 ENGLAND N.W.	Variable breezes, finally E.; fair generally, but some fog or mist.
8 ENGLAND S.W.	Wind backing to the S.; fine at first, some rain later.
9 IRELAND NORTH 10 IRELAND SOUTH	SE. winds, freshening; fine at first, some rain later.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	30·09	55	49	NNW	4	b	1
Sumburgh Head	30·12	50	48	NE	1	c	3
Stornoway	30·13	58	54	ESE	3	c	3
Aberdeen	30·11	52	41	NE	3	cp	4
Shields	30·07	55	52	NNE	2	bc	3
Ardrossan	30·09	53	51	NW	1	bc	0
Malin Head ...	30·12	53	50	NNW	4	bc	2
Belmullet	30·18	60	53	S	1	b	*
Holyhead	30·09	54	50	N	3	bc	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·19	57	50	NW	1	br	4
Scilly	30·11	56	53	NNW	4	bc	2
Jersey	30·03	58	51	NW	3	c	3
Hurst Castle ...	30·00	58	55	N	1	bcm	1
Dungeness ...	29.96	56	52	N	2	m	1
North Foreland	29.96	55	51	W	2	b	1
London (Westminster)	29.99	52	50	NNW	1	cm	*
Yarmouth ...	29.94	56	53	NW	2	bc	3
Rochefort ...	30·06	63	59	N	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning foggy or misty over Great Britain and the Netherlands, with rain at one or two of the English stations. Fine in Ireland as well as in the Shetlands and Hebrides, the north of France, and the greater part of southern Europe. Rainy in the south of France and the western parts of Germany, but fine in Eastern Germany; cloudy or dull at most of the Russian and Scandinavian stations, with rain at St Petersburg. Showers occurring later in many parts of the United Kingdom, with thunder and lightning over the English Channel; heavy rain falling at Yarmouth and at some of the French and German stations.

Temperature fallen in most places, but risen quickly in northern Russia. Morning readings highest 71° at Algiers, 70° at Malta and 68° at Palermo; above 60° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest 27° at Warsaw and Kiev, and 29° at Riga and Lemberg, below 40° in many parts of Poland and Austria, and just touching that point at Parsonstown. Daily maxima below 60° over the United Kingdom generally and below 55° at some of our northern and southwestern stations, thermometer exceeding 60° over the southern parts of France and touching 72° at Perpignan.

Wind light to moderate from the N^ly or NW^ly over the greater part of our Islands and also over the north and west of France, and the Spanish Peninsula. E^ly or SE^ly over Germany, Denmark, and the Netherlands. W^ly or NW^ly over Sweden and Russia; calm or variable in Austria; rather variable also in Italy but chiefly N E^ly in the south of France. Subsequently veering to the NE^ly in Scotland; no important change occurring elsewhere.

Barometer highest 30·2 ins. to 30·3 ins. and upwards in an anticyclone over Austria and the neighbouring parts of Germany & Russia; 30·2 ins. and upwards in another system lying off the west of Ireland. Lowest 29·5 ins. and less, in a depression over the extreme north of Russia; 30·0 ins. and less, in two shallow systems,—one lying over the Netherlands, Western Germany, and the East of France and the other over the western parts of the Mediterranean. Depression over Netherlands subsequently becoming rather deeper, and barometer falling in most parts of Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 13th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	30·13	30	N	2	b	30·26	+ ·36	28	28	− 4	N	2	c	*	b	*	39	25	—
	Hernösand ...	30·18	34	N	4	b	30·28	+ ·39	30	28	− 11	N	2	b	*	b	*	41	25	—
	Stockholm ...	30·02	41	NW	4	o	30·20	+ ·29	33	32	− 12	NNW	2	b	*	o	*	48	?	—
	Wisby	29·97	47	N	4	o	30·14	+ ·21	41	37	− 7	ENE	4	bc	*	o	*	50	41	—
	Karlstad ...	30·02	44	N	2	b	30·28	+ ·29	37	35	+ 1	NE	2	c	*	b	*	*	*	—
	Bodo	30·22	36	E	2	b	30·29	+ ·25	33	32	− 9	E	4	b	1	b	*	42	30	—
	Christiansund ...	30·13	45	NE	2	c	30·15	+ ·02	41	40	− 3	NE	2	bc	3	c	*	48	39	0·04
	Skudesnaes ...	30·01	47	N	4	b	30·13	+ ·12	46	45	0	NE	1	b	1	b	*	55	43	*
	Færder (Christiania Fjord)	30·01	50	N	2	b	30·20	+ ·21	43	39	− 3	E	4	o	2	b	*	50	43	—
	Skagen (The Scaw)	30·01	48	E	3	bc	30·13	+ ·16	46	44	− 4	ESE	3	b	0	bc	*	54	45	—
	Fanö	29·91	47	E	2	o	29·97	+ ·07	47	45	+ 1	NE	4	o	*	o	*	52	46	0·04
	Sumburgh Head	30·01	48	NE	3	o	30·04	− ·02	49	46	+ 1	ESE	1	o	4	c,o	*	50	45	0·01
	Stornoway ...	29·99	49	ESE	2	b	29·92	− ·14	49	47	+ 6	ESE	3	b	3	b	8·0	57	43	—
	Wick	30·03	54	S	3	o	30·02	− ·04	50	48	+ 1	S	1	o	1	o,r	*	62	46	0·12
	Nairn	30·01	50	S	0	c	29·99	− ·10	43	42	− 1	S	0	b	1	c	*	54	35	0·03
	Aberdeen ...	30·00	48	N	2	cp	30·02	− ·04	47	46	0	NW	2	bcm	3	cgp	1·5	52	43	0·02
BRITISH ISLANDS	Leith	29·98	51	W	1	o	29·96	− ·10	45	44	0	S	0	o	*	o	*	52	42	—
	Shields	29·99	50	NNW	2	o	29·96	− ·06	48	47	0	N	2	c	2	dp,c,o	*	58	45	0·02
	Spurn Head ...	29·93	53	N	3	c	29·91	− ·04	51	50	+ 2	NE	3	cp	3	c,r	*	55	48	0·24
	York	29·96	50	NW	1	o	29·94	− ·08	39	39	− 6	NW	1	f	*	c,o	3·7	55	36	0·01
	Loughborough ...	29·98	51	NNW	1	o	29·95	− ·08	43	42	0	NE	1	ofm	*	bc,o,bf	*	58	36	—
	Ardrossan ...	29·97	51	NNE	2	of	29·92	− ·16	48	46	+ 3	NE	3	bf	2	bc,of	*	58	42	—
	Malin Head ...	29·93	48	SSE	3	b	29·71	− ·27	48	46	+ 2	SE	5	bm	2	bc,bm	*	54	44	—
	Belmullet ...	29·84	53	SE	3	o	29·64	− ·37	52	49	+ 4	SE	4	r	*	bc,o	*	60	45	0·01
	Donaghadee ...	29·97	49	SSW	2	b	29·88	− ·19	52	49	+ 7	SSE	4	bc	2	b	*	56	43	—
	Liverpool (Bidston)	29·99	49	NW	1	bc	29·93	− ·13	41	40	− 8	E	1	m	?	bc	*	53	39	—
	Holyhead ...	29·97	50	ENE	1	b	29·87	− ·19	47	45	− 5	ENE	1	c	1	b	*	59	43	—
	Parsonstown ...	29·91	50	SE	1	c	29·71	− ·36	52	49	+ 17	SE	3	o	*	b,c	6·7	58	34	—
	Valencia ...	29·78	57	SE	5	ogr	29·50	− ·48	56	54	+ 2	SE	6	rmg	5	og,ogr	0·7	58	53	0·44
	Roche's Point ..	29·87	56	SSE	5	o	29·64	− ·41	56	54	+ 1	S	8	r	5	o	*	58	54	0·04
	Pembroke (St. Ann's Hd.)	29·96	52	NW	2	b	29·79	− ·25	54	52	0	SE	6	ogm	4	b	7·9	57	47	—
	Scilly	29·92	54	S	3	c	29·70	− ·37	56	54	+ 2	ESE	6	o	2	c	5·9	62	50	—
	Prawle Point ...	29·98	51	W	3	bc	29·83	− ·23	55	51	+ 4	SSE	4	cw	3	bc	*	61	48	—
	Jersey (St. Aubin's)	29·98	56	WNW	1	bc	29·87	− ·17	57	53	+ 5	ESE	3	ow	3	ogm,bcr	*	60	42	0·01
	Hurst Castle ...	29·96	49	N	1	o	29·90	− ·14	46	45	+ 1	NE	2	ow	1	bcm,bm	*	59	41	—
	Dungeness ...	29·91	53	NNW	4	c	29·89	− ·05	40	40	− 6	NNW	3	f	3	bc,c	*	59	38	—
	North Foreland	29·90	54	WNW	5	c	29·88	− ·04	51	49	0	WNW	2	b	3	b,c	*	57	47	0·01
	London (Brixton) ...	29·94	53	NNW	2	ow	29·91	− ·08	46	45	+ 1	S	0	f	*	b,op,b	4·1	58	39	—
	Oxford	29·97	45	NW	1	o	29·94	− ·09	40	40	− 2	NNE	2	fw	*	c,b	*	56	34	0·01
	Cambridge ...	29·95	50	N	2	o	29·92	− ·06	44	44	0	NW	1	f	*	bc,o	4·1	59	40	—
	Yarmouth ...	29·88	52	NNE	6	rgq	29·87	− ·01	51	50	0	NNE	3	cp	4	cq,rg	*	56	45	0·13
GERMANY & HOLLAND	Cuxhaven ...	29·78	47	ENE	4	o	29·86	+ ·08	47	46	0	ENE	4	o	*	o	*	48	45	0·08
	Berlin	29·79	50	SW	2	r	29·81	+ ·05	46	45	0	NE	2	r	*	r	*	52	46	0·20
	Wiesbaden ...	*	*	*	*	*	29·82	·00	48	45	− 1	NW	1	o	*	*	*	55	46	—
	Munich... ..	29·89	40	W	4	r	29·86	− ·02	44	43	+ 1	W	5	o	*	r	*	45	39	0·59
	The Helder ...	29·81	50	NE	2	r	29·83	+ ·10	49	46	− 1	ENE	1	o	2	r	*	52	48	0·08
BELGIUM	Brussels ...	*	*	*	*	*	29·86		46	46		S	0	c	*	o	*	57	42	0·08
	Cape Gris Nez ...	?	55	NNW	4	c	?	?	55	50		NE	3	bc	3	c	*	57	48	0·12
	Paris	29·95	52	WNW	2	bc	29·92	− ·05	38	38	− 5	SSW	1	b	*	bc	*	60	37	—
	Brest	29·98	55	SW	1	c	29·73	− ·35	54	51	+ 3	ESE	4	o	4	c	*	61	46	—
	Lorient... ...	29·98	55	W	3	bc	29·77	− ·35	55	52	+ 4	SE	3	o	2	bc	*	64	50	—
FRANCE	Rochefort ...	30·00	57	W	3	c	29·89	− ·18	52	50	0	SE	4	o	*	c	*	64	50	—
	Belfort	29·90	44	W	2	m	29·91	+ ·02	44	43	0	WSW	4	m	*	m	*	51	44	—
	Lyons	30·01	46	NW	1	b	29·97	− ·03	42	42	− 3	NNW	1	b	*	b	*	51	40	?
	Nice	29·68	56	E	5	b	29·76	+ ·07	51	42	− 6	E	5	b	2	b	*	66	45	—
	Perpignan ...	30·01	56	NE	2	b	29·93	− ·08	45	44	− 9	NW	2	b	*	b	*	65	41	—
	Biarritz ...	30·00	59	NNE	3	c	29·79	− ·24	51	48	− 3	ESE	4	o	2	c	*	64	48	—
PENINSULA	Corunna ...																*			
	Lisbon	29·94	63	NW	3	b	29·88	− ·13	62	58	− 3	SSW	1	o	*	b	*	75	59	—
	Azores (P. Delgada)	30·07	62	NNW	3	bc	30·08	+ ·13	61	55	− 3	NNW	2	c	3	bc	*	70	59	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

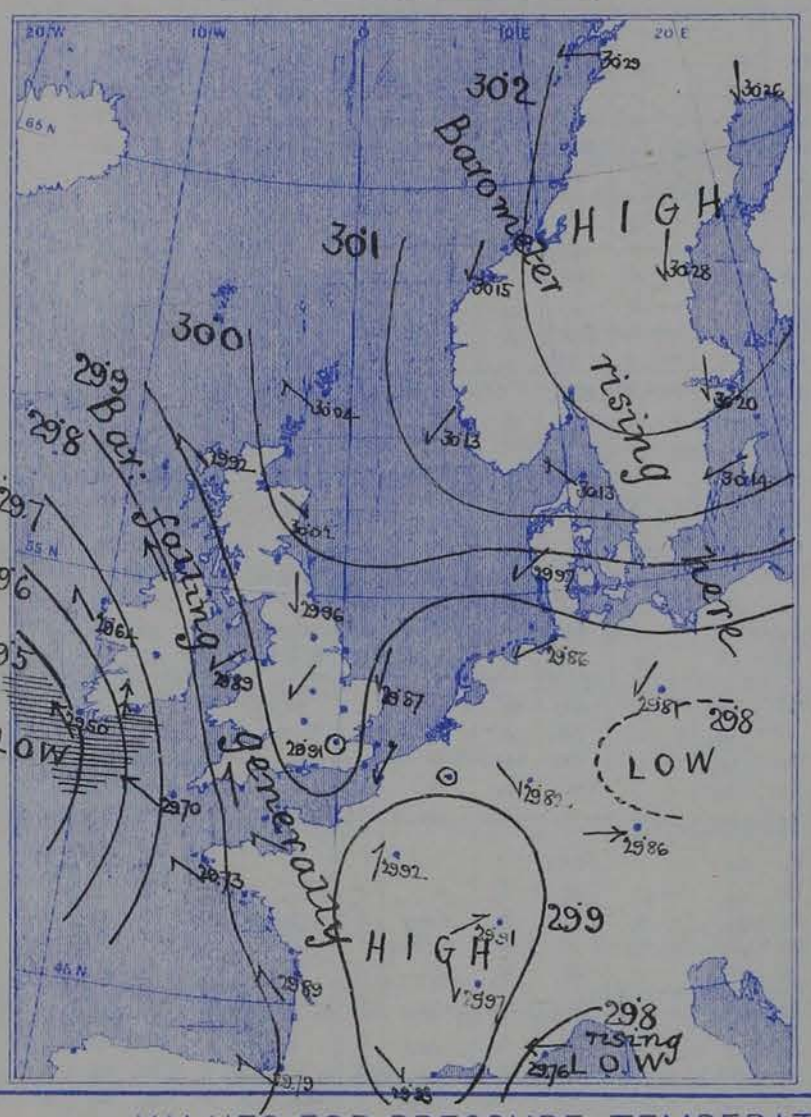
Bright Sunshine yesterday Southport 8·1 *hrs.*

WEATHER CHARTS

FOR Thursday, 13th October, 1898

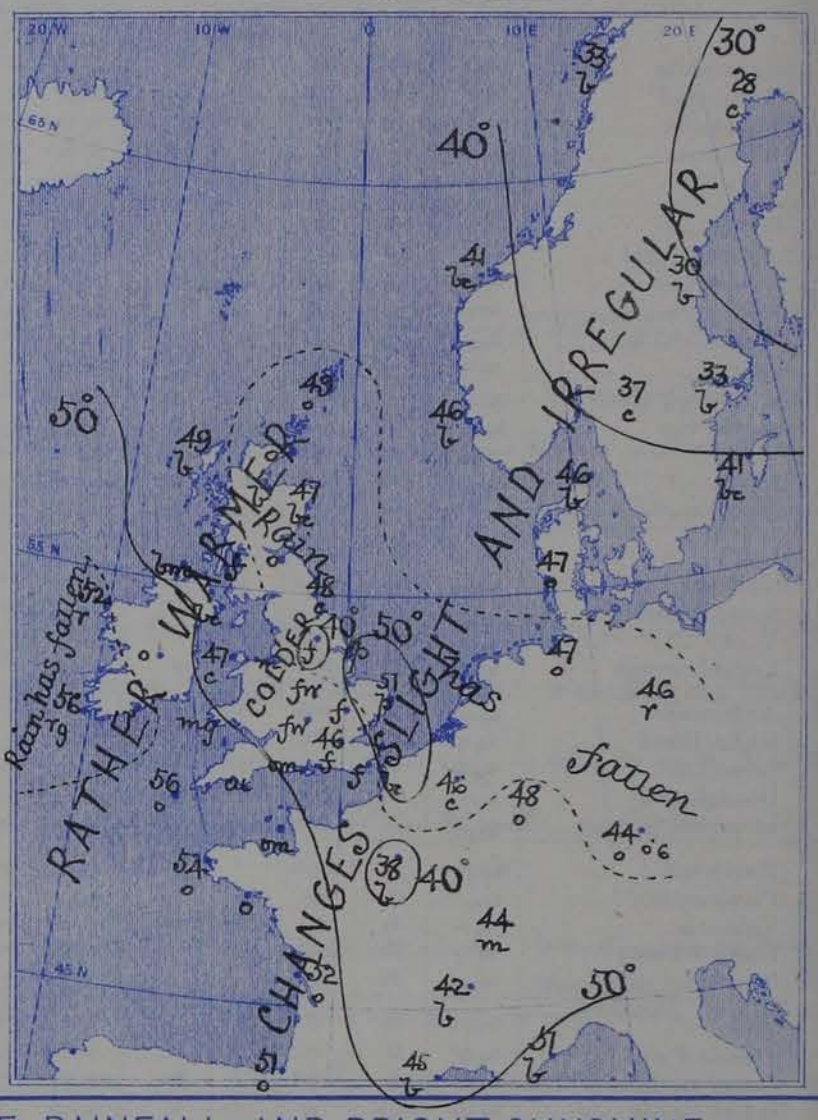
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6		–	–	–			–
Belmullet	29·846	49·4	46·4	53·9	46·0		–			5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in Scandinavia; 30.0 ins. and upwards in an anticyclone extending thence over the northern parts of the North Sea to the NE. of England.
Lowest 29.5 ins. and less in a rather deep depression lying off the SW. of Ireland.
Gradients slight generally, but rather steep over our extreme SW. coasts.
Barometer falling in most parts of our Islands and France, – briskly on our SW. coasts rising over Scandinavia, Denmark and the Netherlands.

TEMPERATURE

Highest 62° at Lisbon, 57° at Jersey and 56° at Valencia (Ireland), Roche's Pt. and Scilly.
Lowest (1) 28° at Haparanda, and 30° at Hernösand; (2) 38° at Paris and 42° at Lyons; (3) 39° at York, and 40° at Oxford and Dungeness.
Ground frost occurred last night over the inland parts of England; the thermometer on the grass falling to 29° at Loughborough, and to 31° at Oxford.

WIND

SE.ly on the west coast of our Islands and France, and strong in force in the south of Ireland and the southwest of England, with a gale at Roche's Point.
Light to moderate from the E.ly or NE.ly over Norway, Denmark, N. Germany and the Netherlands, and from the N.ly on the east coasts of Gt. Britain, as well as over the Gulf of Bothnia. W.ly over south Germany and the east of France.

WEATHER

Fair at some of our own N.rn. stations, as well as in Scandinavia and the central and southern parts of France.
Cloudy or overcast elsewhere, with fog or mist over England; showers on our E. coasts, and steady rain in the S. of Ireland.
Rain fell yesterday in several parts of the United Kingdom, but the quantity was mostly slight. A larger amount was, however, measured at Valencia (Ireland) and also at Munich.

SEA

Slight or smooth generally, but rather rough off the S. of Ireland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday over the Netherlands has almost entirely dispersed, but the new disturbance off the SW. of Ireland has spread eastwards and proves to be rather deep. Increasing SE.ly winds, and rain are probable on many parts of our W.rn. coasts, but in the E. the weather is likely to remain fair for the present.

FORECASTS

For the 24 hours ending at NOON on 14TH OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE.ly winds, light or moderate; fair generally.
1 SCOTLAND EAST	N.ly and NE.ly winds, light, fair generally, but some fog or mist.
2 ENGLAND N.E.	
3 ENGLAND EAST	N.ly to E.ly winds, light or moderate, cloudy, with some fog or mist.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 1 and 2.
7 ENGLAND N.W.	E.ly winds, freshening; fair at first, some rain later.
⚠ 8 ENGLAND S.W.	SE.ly winds, strong to a gale; dull, some rain.
9 IRELAND NORTH	SE.ly winds, increasing in force; fair at first, some rain later.
⚠ 10 IRELAND SOUTH	Same as No. 8.
WARNINGS	At 7.20 pm yesterday to district 10, and at 10 am. today to district 8. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (⚠), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (⚠), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	30·02	55	50	N	4	b	1
Sumburgh Head	30·06	48	47	NE	3	c	4
Stornoway	30·01	51	52	SE	3	b	3
Aberdeen	30·01	51	48	NW	2	opg	2
Shields	30·01	51	48	NNW	3	c	2
Ardrossan	30·00	55	51	WSW	1	bc	1
Malin Head	29·96	54	51	SSE	3	bc	2
Belmullet	29·92	60	56	SSE	3	bc	*
Holyhead	30·01	55	49	NE	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·86	57	53	SSE	5	og	5
Scilly	30·01	59	53	S	3	c	1
Jersey	30·01	58	52	WNW	1	ogm	1
Hurst Castle	29·97	58	53	N	1	bcm	1
Dungeness	29·92	57	51	N	4	bc	3
North Foreland	29·90	57	50	WNW	5	b	3
London (Westminster)	29·95	56	56	NNW	2	c	*
Yarmouth	29·88	55	52	NNW	4	cq	5
Rochefort	30·06	62	60	NW	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine in most parts of the United Kingdom, France and Spain, but with fog or mist in places. Rainy over Germany and Holland, and showery on the east coasts of England. Fine in Scandinavia and also in the southern parts of Russia and Italy; dull over N^rn. Italy, with rain at Leghorn and Florence. Showers falling later in several parts of Gt. Britain, and rain setting in at night over the south of Ireland. Rain occurring also over nearly the whole of Germany, the Netherlands and the N.E. of France.

Temperature fallen in most parts of our Islands and France and also in Russia and Scandinavia. Morning readings highest 72° at Algiers, 70° at Palermo, Malta and Sfax, and 69° at Brindisi; above 60° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest 25° at Kiev, 26° at Nicolaieff and 27° at Kharkov; below the freezing point also in Finland and Lapland and very little above it over central Ireland. Daily maxima below 60° in nearly all parts of the United Kingdom, and below 55° at several of our N^rn. and E^rn. stations; thermometer exceeding 60° in the W. and S. of France, and reaching 75° at Lisbon. Ground frost occurring over central England at night.

Wind light to moderate from the E^ly. or NE^ly. over the south of Norway, Denmark, N. Germany and Holland and from the NW^ly. or N^ly. over the eastern and southern parts of Gt. Britain and the greater part of France; W^ly. or SW^ly. in south Germany; S^ly. in Austria and northern Italy. S^ly. or SE^ly. in Ireland; calm in the west of Scotland. N^ly. or NW^ly. in Sweden and Russia. N^ly. wind subsequently blowing strongly on the southeast coasts of England and SE^ly. wind freshening in the south of Ireland.

Barometer highest 30.2 ins. and upwards over the extreme S. of Russia; 30.0 ins. to 30.1 ins. and upwards over our Islands, Norway, France and Spain. Lowest 29.5 ins. and less over N^rn. Russia; 29.7 ins. and less in two depressions, - one (shallow) with its centre near Munster, the other (much deeper) over the Gulf of Genoa. Former depression beginning to disperse later, but new disturbance approaching the S.W. of Ireland from the Atlantic.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday, 14th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.28	27	N	2	bc	30.26	00	22	21	- 6	NE	0	b	*	bc	*	36	21	-
	Hernösand ...	30.30	29	NE	0	b	30.30	+.02	27	25	- 3	NE	0	b	*	b	*	43	25	-
	Stockholm ...	30.23	33	N	2	b	30.23	+.03	30	30	- 3	NE	0	f	*	b	*	41	30	-
	Wisby	30.20	36	NE	4	S	30.23	+.09	36	35	- 5	ENE	4	bc	*	S	*	43	32	0.12
	Karlstad ...	30.25	39	N	2	0	30.23	-.05	37	35	0	NE	2	0	*	0,r	*	*	*	-
	Bodö	30.32	33	E	2	b	30.30	+.01	30	27	- 3	E	4	b	1	b	*	36	27	-
	Christiansund ...	30.15	44	ENE	1	b	30.15	.00	36	35	- 5	NE	0	b	3	b	*	46	36	-
	Skudesnaes ...	30.17	51	SSE	2	0	30.14	+.01	48	44	+ 2	S	4	0	3	0	*	54	45	*
	Færder (Christiania Fjord)	30.21	45	SE	2	0	30.16	-.04	44	42	+ 1	SE	4	0	2	0	*	45	43	-
	Skagen (The Scaw)	30.19	45	SSE	2	b	30.19	+.06	45	42	- 1	S	1	0	0	b	*	50	43	-
	Fanö	30.11	42	E	4	b	30.13	+.16	42	41	- 5	E	2	0	*	b	*	54	41	-
BRITISH ISLANDS.	Sumburgh Head	30.04	49	ESE	1	b	30.02	-.02	50	46	+ 1	ESE	3	b	4	b	*	54	47	-
	Stornoway ...	29.87	53	SE	4	bc	29.80	-.12	51	49	+ 2	ESE	4	c	4	b	8.0	59	45	-
	Wick	29.99	50	SE	3	0	29.91	-.11	50	49	0	SE	5	TU	5	0	*	55	49	0.05
	Nairn	29.94	51	NE	0	c	29.83	-.16	50	49	+ 7	E	1	b	1	c	*	58	42	-
	Aberdeen ...	29.98	51	SE	5	cqg	29.89	-.13	50	48	+ 3	SE	7	ogq,p	7	bcq,cq	2.7	57	47	0.07
	Leith	29.89	52	E	3	bc	29.78	-.18	46	44	+ 1	E	2	0	*	bc	*	56	43	-
	Shields	29.90	53	E	3	c	29.80	-.16	53	52	+ 5	SE	3	op	3	cp.c	*	59	46	0.06
	Spurn Head ...	29.85	54	ESE	4	c	29.77	-.14	54	51	+ 3	SE	5	o	5	c.p	*	57	50	0.01
	York	29.87	52	ENE	1	c	29.78	-.16	48	46	+ 9	ESE	1	0	*	bc.c,p	5.1	59	39	0.04
	Loughborough ...	29.84	51	ENE	1	c	29.75	-.20	47	47	+ 4	ESE	2	omw	*	cm,bc.o	*	58	39	-
	Ardrossan ...	29.83	52	NE	3	om	29.71	-.21	52	50	+ 4	ENE	4	cm	2	bcm,om	*	56	46	-
	Malin Head ...	29.71	52	SE	5	om	29.59	-.18	52	49	+ 4	SE	5	cm	3	o,om	*	52	47	-
	Belmullet ...	29.63	52	ESE	5	r	29.46	-.18	51	49	- 1	ESE	5	o	*	r	*	54	48	0.74
	Donaghadee ...	29.77	55	ESE	5	c	29.66	-.22	54	50	+ 2	ESE	7	c	5	c	*	55	51	-
	Liverpool (Bidston)	29.81	48	ESE	2	o	29.68	-.25	49	46	+ 8	E	3	r	?	o	*	52	41	-
	Holyhead ...	29.76	51	E	1	o	29.62	-.25	49	48	+ 2	E	3	gmr	2	c.o	*	54	45	0.12
	Parsonstown ...	29.60	53	SE	2	r	29.45	-.26	51	48	- 1	SE	1	r	*	o.r	0.0	54	50	0.05
	Valencia ...	29.46	54	NNW	1	rm	29.37	-.13	52	51	- 4	SE	1	o	4	rm	0.0	57	48	2.08
	Roche's Point ..	29.49	56	SSE	8	d	29.40	-.24	53	51	- 3	NNW	3	bc	4	d	*	57	52	0.96
	Pembroke (St. Ann's Hd.)	29.66	54	SE	7	o	29.50	-.29	52	50	- 2	SE	7	r	5	o	0.0	54	50	0.18
	Scilly	29.48	56	ESE	8	rm	29.41	-.29	55	52	- 1	ESE	1	bc	3	or.rm	0.0	57	52	0.55
	Prawle Point ...	29.70	56	SE	6	o	29.52	-.31	53	52	- 2	SE	6	p	5	cg.q	*	60	52	0.11
	Jersey (St. Aubin's)	29.75	57	ESE	5	ogm	29.56	-.31	55	50	- 2	ESE	5	cm	4	om,gm	*	57	54	-
	Hurst Castle ...	29.79	54	ESE	2	om	29.65	-.25	55	52	+ 9	ESE	4	om	2	om	*	56	46	0.02
	Dungeness ...	29.83	55	ENE	2	c	29.74	-.15	54	51	+ 14	SSE	4	c	3	bc.c	*	58	39	-
	North Foreland	29.84	53	NNE	1	c	29.76	-.12	51	50	0	E	5	o	5	bc	*	56	50	-
	London (Brixton) ...	29.84	45	NE	0	of	29.72	-.19	49	48	+ 3	E	3	o	*	fg,o	0.0	49	43	-
	Oxford	29.83	43	NE	0	b	29.71	-.23	49	48	+ 9	E	2	od	*	cf,b	*	50	40	0.01
	Cambridge ...	29.85	49	E	1	bc	29.76	-.16	49	48	+ 5	E	2	om	*	bc	2.9	60	39	-
	Yarmouth ...	29.84	54	E	4	c	29.80	-.07	53	51	+ 2	ESE	6	c	5	bcy,cy	*	56	53	-
GERMANY & HOLLAND.	Cuxhaven ...	29.94	47	E	5	o	30.05	+.19	38	35	- 9	ESE	5	b	*	o	*	48	36	-
	Berlin	29.99	43	NE	4	o	30.10	+.29	33	31	- 13	ESE	4	b	*	o	*	50	32	0.20
	Wiesbaden ...	*	*	*	*	*	29.91	+.09	44	41	- 4	NE	0	b	*	*	*	50	43	-
	Munich... ..	29.94	42	NE	0	c	29.94	+.08	35	35	- 9	E	3	f	*	c	*	48	32	0.12
	The Helder ...	29.89	50	ESE	1	o	29.90	+.07	45	44	- 4	ESE	2	o	2	o	*	50	45	-
BELGIUM.	Brussels ...	*	*	*	*	*	29.85	-.01	40	40	- 6	ESE	2	f	*	b	*	55	38	-
	Cape Gris Nez...	?	54	NE	1	bc	?	?	47	45	- 8	SE	2	m	1	bc	*	59	45	-
	Paris	29.90	48	SSW	1	o	29.74	-.18	46	44	+ 8	E	2	bc	*	o	*	57	38	-
	Brest	29.60	55	SE	5	r	29.44	-.29	55	54	+ 1	SSE	3	c	3	r	*	57	50	0.47
	Lorient... ...	29.66	56	SE	5	o	29.49	-.28	52	51	- 3	ESE	6	r	5	o	*	64	52	0.55
FRANCE &	Rochefort ...	29.75	58	ESE	3	bc	29.57	-.32	54	50	+ 2	SE	3	c	*	o,bc	*	64	48	-
	Belfort	29.87	48	NE	0	m	29.82	-.09	39	39	- 5	ENE	4	f	*	m	*	54	37	-
	Lyons	29.88	50	N	1	c	29.78	-.19	42	42	0	S	1	b	*	c	*	57	40	-
	Nice	29.80	53	E	1	b	29.81	+.05	52	48	+ 1	E	6	bc	2	b	*	64	48	-
	Perpignan ...	29.81	54	NE	2	b	29.71	-.22	54	52	+ 9	W	2	o	*	b	*	62	45	-
	Biarritz ...	29.67	63	E	4	o	29.57	-.22	60	56	+ 9	SE	4	o	2	o	*	73	51	0.08
PENIN-SULA.	Corunna ...																*			
	Lisbon	29.88	60	NNW	2	b	29.82	-.06	62	59	0	NNW	4	r	*	b	*	68	57	-
	Azores (P. Delgada)	30.07	65	NW	2	bc	29.97	-.11	67	60	+ 6	WSW	4	c	6	bc	*	70	61	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

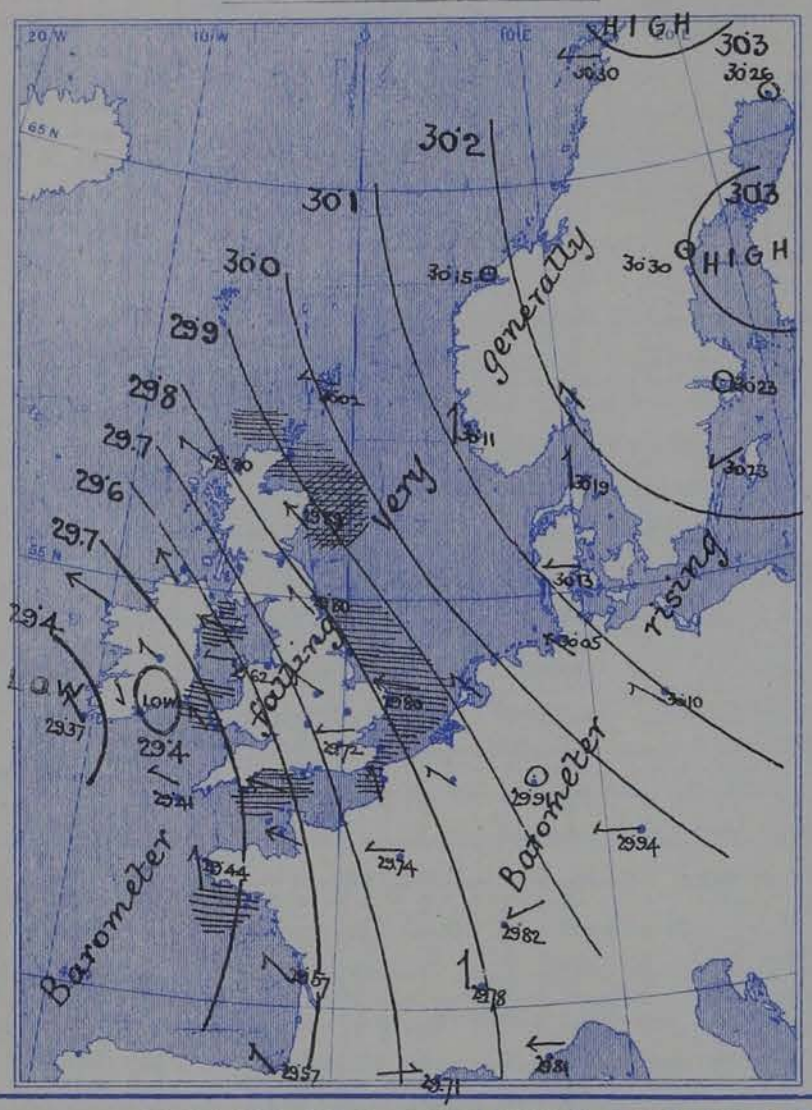
Bright Sunshine yesterday Southport 4.2 hrs;

WEATHER CHARTS

FOR Friday, 14th October, 1898

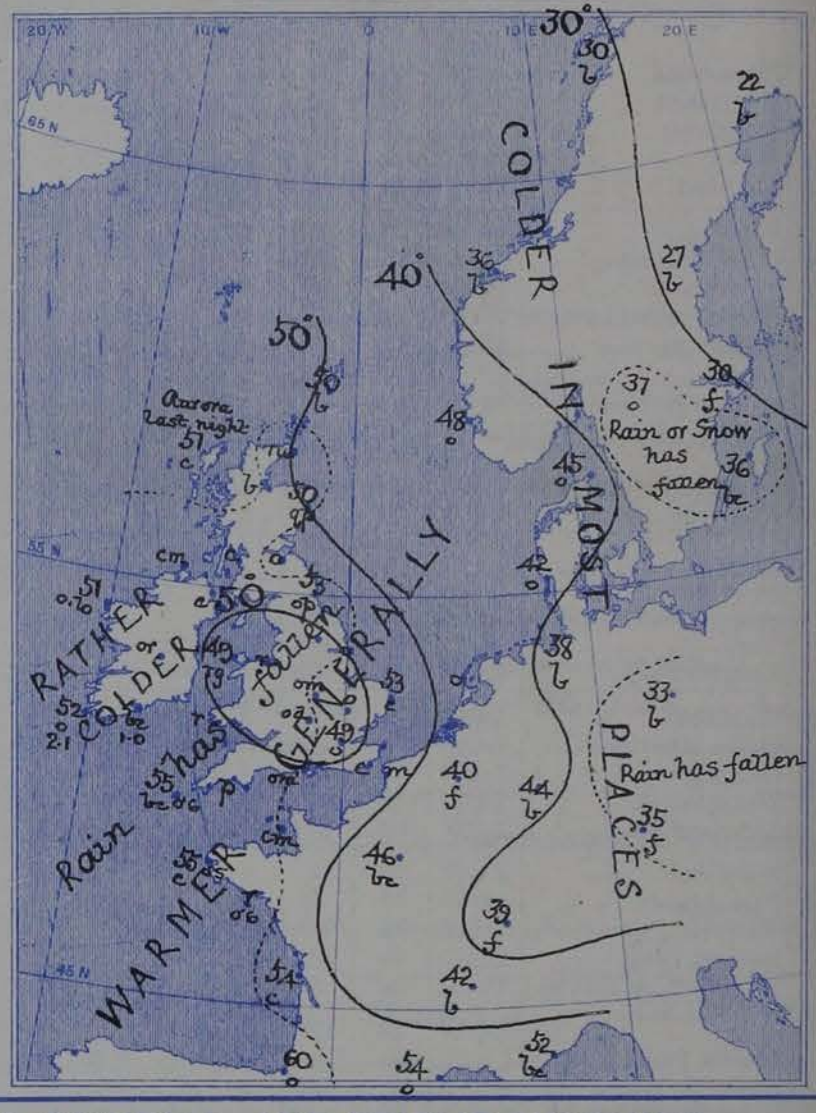
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·30 ins. at Bodö and Hernösand; 30·1 ins. and upwards in an anticyclone lying over Scandinavia, Denmark and North Germany.
Lowest, 29·4 ins. and less, in a small depression at the mouth of the St. George's Channel, and also in another system off the southwest of Ireland.
Gradients moderate to rather steep over the greater part of our Islands and France.
Barometer falling over Western Europe generally, but rather unsteady on our extreme southwest coast.

TEMPERATURE

Highest, 62° at Lisbon, 60° at Biarritz, and 55° at Scilly, Hunstanton, Jersey, and Pembroke.
Lowest, 22° at Haparanda, 27° at Hernösand, and 30° at Bodö and Stockholm; lowest in our Islands, 46° at Leith and 47° at Loughborough.
The maxima registered yesterday were below 60° in nearly all parts of the United Kingdom; in London the thermometer did not exceed 49°.

WIND

E. or SE. over Western Europe generally, and strong in force on nearly all the more exposed parts of our coasts.
Calm in the Gulf of Bothnia.
A fresh to strong gale from the SE. was experienced yesterday in the southwest of our Islands.

WEATHER

Cloudy or dull over nearly the whole of our Islands and France, as well as in Denmark and the south of Norway, with rain or passing showers at several of our western and northern stations.
Fine in Germany, Sweden, and the northern parts of Norway.
Rain fell yesterday at many of our western stations, and passing showers on our east coasts; at Valencia (Ireland) the amount was as much as much as 2·1 ins. and at Rochfort Point 1·0 inch. Aurora seen at Stornoway at night.

SEA

High at Aberdeen, and rather rough on the east coasts of Great Britain generally, as well as at Donaghadee, Pembroke, Prawle Pt. and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system in the southwest continues to spread eastwards and northwards, and a further increase of wind from the E. or SE. is probable on many parts of our north and east coasts, with rain in most districts.

FORECASTS

For the 24 hours ending at NOON on 15th OCTOBER 1898

DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH ↑ 1 SCOTLAND EAST ↑ 2 ENGLAND N.E.	SE. winds, strong, a gale in places; dull, some rain.
↑ 3 ENGLAND EAST 4 MIDLAND COUNTIES ↑ 5 ENGLAND SOUTH	E. and SE. winds, strong on coast; cloudy, some showers.
6 SCOTLAND WEST ↑ 7 ENGLAND N.W.	E. winds, freshening considerably; dull, some rain.
↑ 8 ENGLAND S.W.	SE. winds, strong; changeable, showery.
↑ 9 IRELAND NORTH	Same as No. 0 to 2
↑ 10 IRELAND SOUTH	SE. winds, freshening; changeable, some rain.
WARNINGS	At 10·30 am. today to part of district 0, "Hoist South Cone". The signals were hoisted during yesterday in districts 1, 2, 3, 5, 7, 8, and 9, and are now flying in all districts excepting No. 6.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	30.17	53	48	S	1	c	1
Sumburgh Head	30.06	53	50	ESE	1	b	3
Stornoway	29.89	59	52	SSE	3	b	3
Aberdeen	29.99	53	50	ESE	5	bcg	5
Shields	29.92	56	53	ENE	2	cp	2
Ardrossan	29.86	55	52	NE	4	bcm	2
Malin Head	29.74	52	49	SE	4	o	3
Belmullet	29.61	54	51	SE	5	r	*
Holyhead	29.81	54	49	E	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.48	53	52	NW	3	r	5
Scilly	29.57	56	55	SE	1	o	4
Jersey	29.81	57	53	ESE	3	o	3
Hurst Castle	29.83	55	53	E	2	gm	2
Dungeness	29.84	57	52	NNE	1	bc	1
North Foreland	29.85	56	53	NNW	2	bc	1
London (Westminster)	29.86	51	49	Z	0	fg	*
Yarmouth	29.85	55	52	ENE	3	bcq	3
Rochefort	29.83	63	54	SSE	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine at some of our own northern stations, as well as over Scandinavia, the Baltic, and the greater part of southern Europe, dull elsewhere, with fog over the inland parts of England, passing showers on our east coasts, and steady rain in the west and south of Ireland, as well as in many parts of Germany and Austria. Heavy rain falling later in the west and south of Ireland and the west of France, – as much as 2·1 in: at Valencia, and passing showers on our east coast. Snow reported at Wick in evening. Aurora seen at Stornoway.

Temperature fallen in Scandinavia and also over southern Europe generally, changed irregularly elsewhere. Morning readings highest 75° at Malta, 71° at Oran and 69° at Algiers and La Calle; above 60° at several of the Mediterranean and Adriatic stations. Lowest 28° at Haparanda, 30° at Hernösand, and 33° at Bodö and Stockholm; below 40° in most parts of Scandinavia and Russia, as well as in central France and the north of England. Daily maxima below 60° in most parts of our Islands, and as low as 49° in London; thermometer exceeding 60° in the west and south of France, and reaching 73° at Biarritz.

Wind SE³ on the east coast of our Islands and France, and strong to a gale in force in the southwest. Moderate to strong from the E^ly or NE^ly over Scandinavia, Denmark, the Baltic, and North Germany; light from the N^ly (NE to NW) on our own east and southeast coast. Variable over Austria Italy, and the Spanish Peninsula; W¹ in South Germany, NW¹ in the south of France. Strong SE³ gale blowing later at the mouth of the English Channel.

Barometer highest, 30·2 in: in an anticyclone lying over Scandinavia; 30·0 in: and upwards over the Black Sea and Asia Minor; 29·9 in: and upwards over Central France. Lowest 29·5 in: and less in two depressions, one lying off the southwest of Ireland and the other over Central Russia. Irish depression subsequently spreading eastwards, and barometer falling over Western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 15th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.16	27	W	2	bc	30.10	-.16	27	27	+5	N	2	0	*	bc	*	32	16	-
	Hernösand ...	30.24	23	NE	0	b	30.13	-.17	19	19	-8	NE	0	b	*	b	*	39	19	-
	Stockholm ...	30.20	31	NE	0	b	30.10	-.13	29	28	-1	N	2	c	*	b	*	34	28	-
	Wisby	30.19	33	N	4	b	30.09	-.14	33	31	-3	SSE	4	b	*	b	*	43	30	-
	Karlstad ..	30.16	34	NNE	4	S	30.06	-.17	33	33	-4	E	2	0	*	S	*	*	*	0.08
	Bodö	30.17	35	E	2	o	29.98	-.32	33	32	+3	E	4	o	1	o	*	36	27	-
	Christiansund ...	30.11	39	E	3	b	30.02	-.13	37	35	+1	E	2	b	2	b	*	43	36	-
	Skudesnaes ...	30.07	48	NE	0	o	29.94	-.20	46	41	-2	S	2	c	3	o	*	48	45	*
	Færder (Christiania Fjord)	30.08	42	W	2	o	30.01	-.15	38	37	-6	ESE	3	r	3	o	*	45	37	0.55
	Skagen (The Scaw)	30.12	44	S	2	bc	29.99	-.20	44	41	-1	SSE	2	o	o	bc	*	48	43	-
	Fanö	30.00	39	ESE	4	b	29.83	-.30	37	34	-5	E	6	bc	*	b	*	50	37	-
BRITISH ISLANDS.	Sumburgh Head	29.97	49	ESE	3	c	29.85	-.17	46	45	-4	E	3	o	5	b,c	*	54	43	0.45
	Stornoway	29.71	51	NE	5	b	29.64	-.16	50	45	-1	S	6	b	7	o,b	0.0	54	40	-
	Wick	29.85	49	SE	7	o	29.73	-.18	48	46	-2	SE	8	ou	7	o	*	54	45	0.12
	Nairn	29.75	52	ESE	3	c	29.65	-.18	47	45	-3	ENE	4	c	3	c	*	55	43	-
	Aberdeen ...	29.82	49	SE	8	ogq	29.66	-.23	47	43	-3	ESE	8	ogqp	7	orq	0.0	51	44	0.16
	Leith	29.70	50	ESE	3	r	29.53	-.25	49	47	+3	E	6	r	*	r	*	53	46	0.10
	Shields	29.70	51	E	4	op	29.48	-.32	51	47	-2	E	5	op	5	op	*	54	48	0.37
	Spurn Head ...	29.63	54	SE	6	o	29.36	-.41	52	50	-2	E	6	o	5	o	*	55	50	-
	York	29.66	52	E	2	o	29.42	-.36	49	47	+1	E	3	r	*	o	0.4	55	47	0.01
	Loughborough ...	29.60	51	E	3	o	29.34	-.41	48	47	+1	E	2	omr	*	o,bc,or	*	55	47	0.03
	Ardrossan ...	29.61	52	ENE	4	om	29.43	-.24	50	47	-2	NE	5	om	2	cm,om	*	56	43	0.01
	Malin Head ..	29.47	53	SE	6	ogm	29.32	-.27	52	49	0	SE	8	ogr	5	omq	*	53	49	0.05
	Belmullet ...	29.38	51	SSE	1	b	29.23	-.23	52	48	+1	ESE	4	o	*	om,b	*	53	48	0.02
	Donaghadee ...	29.54	55	ESE	7	o	29.36	-.30	52	50	-2	E	9	c	6	o	*	55	51	0.06
	Liverpool (Bidston)	29.56	50	E	3	o	29.31	-.37	50	47	+1	E	4	o	?	r,om	*	53	47	0.04
	Holyhead ...	29.49	53	ENE	4	o	29.25	-.37	51	48	+2	ENE	6	cm	4	om	*	54	47	0.01
	Parsonstown ...	29.39	52	SE	1	r	29.14	-.31	51	48	0	SE	2	or	*	o,or	1.9	58	49	0.03
	Valencia ...	29.26	55	ESE	3	b	28.97	-.40	55	52	+3	E	5	r	4	bv,b	8.9	60	51	0.45
	Roche's Point ..	29.34	51	SSE	4	b	29.02	-.38	56	54	+3	SE	7	c	5	b,q,p	*	60	52	0.75
	Pembroke (St. Ann's Hd.)	29.38	54	SE	6	o	29.11	-.39	52	51	0	E	5	gr	4	o	0.0	56	50	0.30
	Scilly	29.26	56	E	4	c	29.01	-.40	56	54	+1	SE	4	c	3	c	7.9	60	52	-
	Prawle Point	29.38	55	SE	4	o	29.11	-.41	55	53	+2	SSE	4	cpu	4	p,r	-	56	52	0.36
	Jersey (St. Aubin's)	29.39	58	E	5	bc	29.06	-.50	55	52	0	SSE	3	cq	3	ogp	-	58	53	0.05
	Hurst Castle ...	29.46	56	ESE	4	o	29.18	-.47	53	53	-2	E	3	om	2	o	*	59	53	0.51
	Dungeness ...	29.55	54	ENE	5	c	29.21	-.53	49	48	-5	ENE	5	r	4	bc,c	*	59	48	0.04
	North Foreland	29.61	53	E	7	o	29.26	-.50	51	49	0	E	6	o	6	bc,o	*	54	50	-
	London (Brixton) ...	29.54	52	E	5	o	29.25	-.47	51	48	+2	SE	4	o	*	c,orq	0.4	59	48	0.14
	Oxford	29.51	49	ESE	3	o	29.25	-.46	49	48	0	ENE	2	or	*	o,q,r	*	55	49	0.11
	Cambridge ...	29.60	50	E	3	om	29.30	-.46	50	48	+1	E	3	oq	*	c,om	1.4	59	47	0.04
	Yarmouth ...	29.64	52	ESE	6	c	29.34	-.46	51	49	-2	E	6	cq	6	c	*	57	49	-
GERMANY & HOLLAND.	Cuxhaven ...	29.95	43	SE	5	b	29.68	-.37	35	33	-3	E	6	o	*	b	*	45	34	-
	Berlin	30.01	37	ESE	4	b	29.75	-.35	33	32	0	ESE	5	c	*	b	*	43	30	-
	Wiesbaden ...	*	*	*	*	*	29.48	-.43	45	43	+1	E	1	o	*	*	*	54	43	-
	Munich	29.72	40	SE	3	b	29.52	-.42	39	39	+4	NE	1	f	*	b	*	50	35	-
	The Helder ...	29.74	46	E	3	b	29.45	-.45	41	40	-4	E	4	b	4	b	*	48	39	-
BELGIUM.	Brussels ...	*	*	*	*	*	29.32	-.53	43	42	+3	NNE	1	o	*	o	*	54	39	-
	Cape Gris Nez ..	?	52	ESE	3	m	?	?	46	43	-1	E	2	m	1	m	*	51	43	0.39
	Paris ...	29.54	54	E	2	bc	29.27	-.47	51	51	+5	S	3	o	*	bc	*	61	46	0.16
	Brest ...	29.31	57	SE	3	c	29.08	-.36	55	53	0	SE	3	o	3	c	*	?	48	-
	Lorient	29.38	55	S	5	c	29.15	-.34	55	53	+3	SSW	3	r	5	c	*	61	52	0.12
FRANCE &	Rochefort ...	29.48	56	W	5	r	29.21	-.36	56	55	+2	SSE	4	r	*	r	*	64	50	0.51
	Belfort ...	29.63	44	ENE	5	m	29.42	-.40	44	43	+5	E	1	r	*	m	*	54	39	0.04
	Lyons ...	29.59	57	S	1	o	29.43	-.35	51	51	+9	S	2	r	*	o	*	66	42	0.55
	Nice	29.63	63	E	7	o	29.53	-.28	54	51	+2	E	1	o	4	o	*	64	50	0.83
	Perpignan ...	29.53	60	S	1	o	29.51	-.20	51	51	-3	W	2	c	*	o	*	64	49	-
	Biarritz ...	29.50	61	SW	5	r	29.34	-.23	68	61	+8	SSW	6	o	5	r	*	70	55	0.20
PENINSULA.	Corunna ...																*			
	Lisbon	29.82	64	SW	5	o	29.72	-.10	64	64	+2	SW	6	r	*	o	*	66	62	0.87
	Azores (P. Delgada)	29.85	69	WSW	5	o	29.76	-.21	68	66	+1	WNW	2	o	6	o	*	72	66	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

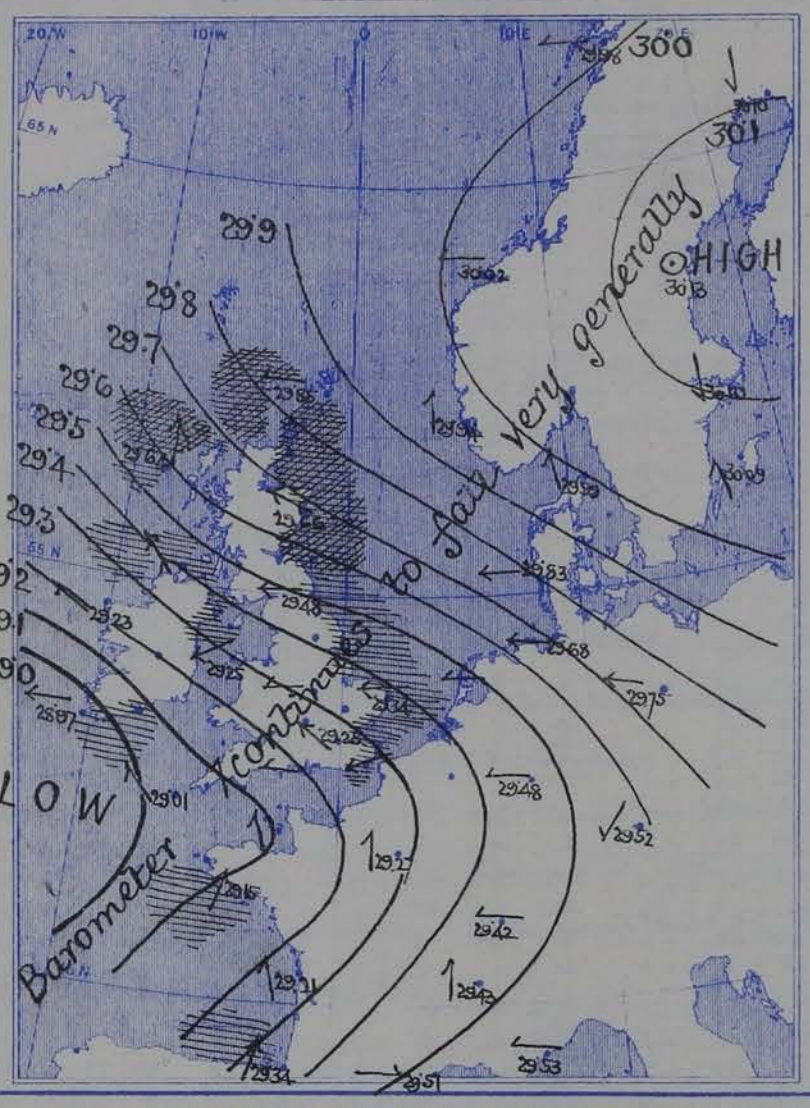
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Saturday, 15th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

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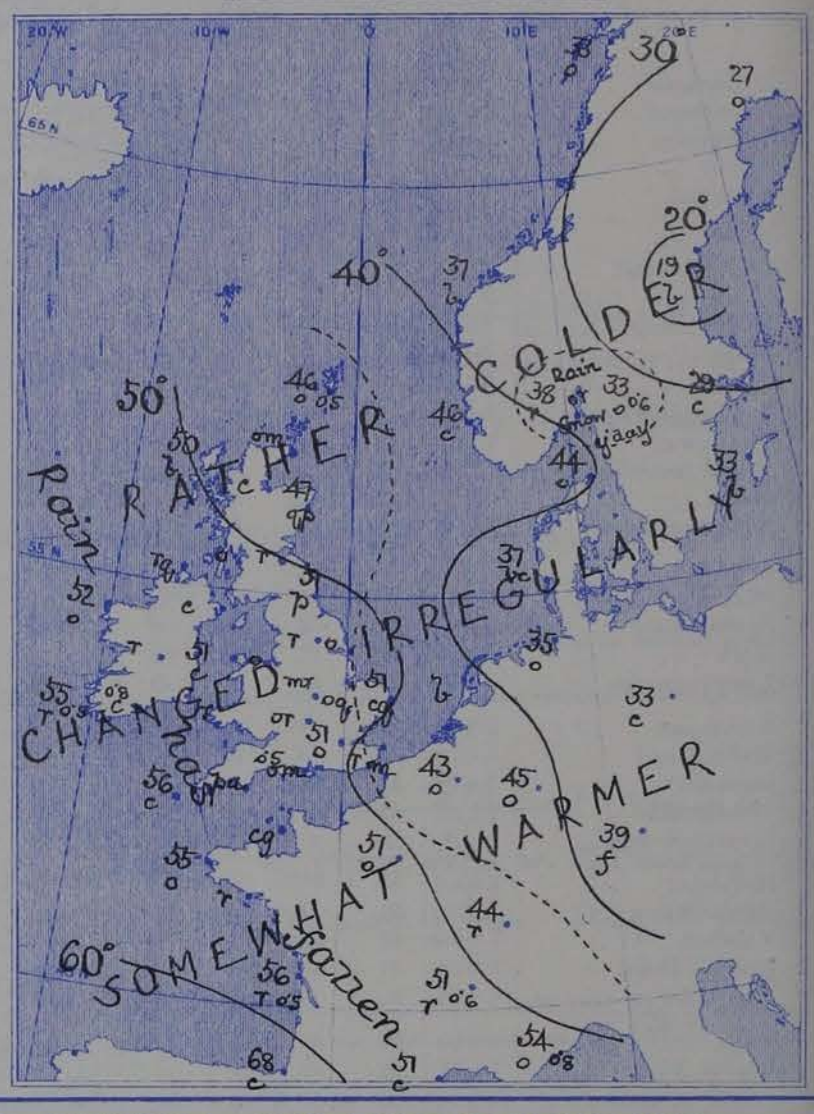
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51		–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and upwards, in an anticyclone lying over the Gulf of Bothnia.
Lowest, 29·0 in: and less, in a deep depression with its centre off the south of Ireland.
Gradients steep, or rather so, over Western Europe generally.
Barometer falling generally,—most on our southwest coasts.

TEMPERATURE

Highest, 68° at Biarritz, ~~and~~ 64° at Lisbon, and 56° at Rocket Point, Scilly, and Rockefort.
Lowest, 19° at Hernösand, 27° at Haparanda, 29° at Stockholm, and 33° at Bodö, Karlstad, Visby and Berlin.
The maxima registered yesterday were below 60° on all but our extreme southwest coasts, and below 55° at several of our northern and eastern stations.

WIND

E^ly or SE^ly over northwestern Europe generally, and strong to a gale in force on most parts of our own western, northern, and eastern coasts.
Moderate from the S^ern over the greater part of France; strong from the SW^ern at Biarritz and Lisbon.
Calm or light from the N^ern at most of the Swedish stations.

WEATHER

Cloudy or dull over nearly the whole of Western Europe, with rain or passing showers in many parts of our Islands and France.
Fine at some of the Scandinavian and Danish stations.
Since yesterday morning rain has fallen in nearly all parts of our Islands and France, the largest amounts being 0·8 in: at Rocket Point and Nice, 0·6 in: at Lyons, and 0·5 in: at Valencia (Ireland) Hunt Castle and Rockefort.

SEA

High off the north of Scotland, and rough or rather so on our northwest, north, and east coast generally, as well as at Rocket Pt and in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our southwest coasts continues to grow deeper, and gales or strong winds from the E^ern or SE^ern are probable over nearly the whole Kingdom, with occasional falls of rain.

FORECASTS

For the 24 hours ending at NOON on 16th OCTOBER 1898

	DISTRICTS.	FORECASTS.
↑	0 SCOTLAND NORTH	S^ly and SE^ly gales and strong winds; dull, some rain.
↑	1 SCOTLAND EAST	E^ly gales and strong winds; dull, rain at times.
↑	2 ENGLAND N.E.	
↑	3 ENGLAND EAST	
	4 MIDLAND COUNTIES	E^ly winds, fresh or strong; dull, rain at times.
↑	5 ENGLAND SOUTH	E^ly winds, strong to a gale on coast; cloudy, showery.
↑	6 SCOTLAND WEST	Same as Nos 1 and 3.
↑	7 ENGLAND N.W.	SE^ly and E^ly winds, increasing in force; dull, rainy.
↑	8 ENGLAND S.W.	
↑	9 IRELAND NORTH	E^ly and SE^ly gales and strong winds; dull, rain at times.
↑	10 IRELAND SOUTH	

WARNINGS

At 9·50 am today to districts 6 and 10 "Hoist South Cone", and at 10 am to district 8 "Keep up Cone". The signals are now flying on all coasts.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	30·12	48	45	S	2	o	3
Sumburgh Head	29·99	52	49	ESE	3	b	5
Stornoway	29·72	54	52	ESE	5	o	5
Aberdeen	29·83	49	48	SE	8	o g q r	7
Shields	29·73	52	51	E	3	p	3
Ardrossan	29·64	55	52	ENE	4	c m	2
Malin Head	29·49	52	50	SE	6	o	4
Belmullet	29·40	51	50	ESE	3	o m	*
Holyhead	29·54	53	50	E	3	o m	2
Valencia	29·31	59	52	SSE	3	b v	4
Scilly	29·34	55	55	ESE	4	c	3
Jersey	29·45	57	52	ESE	5	c	4
Hurst Castle	29·52	55	53	ESE	5	o	3
Dungeness	29·61	58	51	E	4	b c	3
North Foreland	29·67	53	50	E	4	b c	3
London (Westminster)	29·61	58	52	E	4	c	*
Yarmouth	29·70	53	51	ESE	5	c	5
Rochefort	29·54	59	57	E	3	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather cloudy or dull over Western and southern Europe generally, with rain at several of our own southern and northern stations, as well as at Lisbon and Barcelona. Fine over the greater part of Scandinavia and Germany; dull in Russia, with snow at Moscow. Rain falling later in nearly all parts of our Islands and France, heavily in places, but sky clearing temporarily in the west and south of Ireland.

Temperature rises over Great Britain, France, and Spain, follows in most other countries. Morning readings highest 74° at Malta and La Calle, 70° at Tunis, and 66° at Algiers; above 60° at several of the Mediterranean and Spanish coast stations. Lowest, 22° at Haparanda, 26° at Ulleaborg, and 27° at Hernösand and Riga. Below the freezing point in most parts of Sweden, Russia, and eastern Germany. Daily maxima in our Islands below 60° on all but the extreme southwest coast, and below 65° at several of the northern and eastern stations, thermometer exceeding 60° in France, and reaching 70° at Biarritz.

Wind E³ or SE³ over western and central Europe generally, and strong in force on nearly all the more exposed parts of our coasts. W³ or NW³ over the Spanish Peninsula, variable in Italy. Calm over the Gulf of Bothnia, light from the N^o at most of the Russian stations. Subsequently increasing to a moderate or fresh gale on several parts of our northwest, north, and east coasts.

Barometer 30·30 ins: at Bodö and Hernösand; 30·1 ins: and upwards in an anticyclone lying over the whole of Scandinavia, Denmark, and North Germany. Lowest 29·4 ins: and less, in a small depression at the mouth of the St George's Channel, and also in another system off the southwest of Ireland; 29·6 ins: and less, in another disturbance over the south of Russia. Irish depression subsequently spreading eastwards, and barometer falling over western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 16th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·10	28	N	2	0	30·13	+ ·03	23	22	− 4	2	0	c	#	0	#	30	19	—
	Hernösand ...	30·01	30	N	2	0	29·99	− ·14	28	27	+ 9	N	2	s	#	0	#	36	16	—
	Stockholm ...	29·93	33	2	0	0	29·86	− ·24	34	33	+ 5	E	2	s	#	0	#	39	27	—
	Wisby	29·92	38	S	4	0	29·78	− ·31	34	33	+ 1	SE	4	b	#	0	#	41	30	—
	Karlstad ...	29·92	35	ENE	2	b	29·82	− ·24	33	31	0	ENE	2	s	#	b	#	#	#	—
	Bodö	30·02	31	E	4	b	30·10	+ ·12	28	25	− 5	E	4	b	1	b	#	34	27	—
	Christiansund ...	29·79	36	E	1	b	29·69	− ·33	37	34	0	ESE	2	b	2	b	#	41	36	—
	Skudesnaes ...	29·78	45	SSE	2	0	29·66	− ·28	44	38	− 2	SE	2	0	3	bc, o	#	50	43	#
	Færder (Christiania Fjord)	29·87	39	ENE	4	0	29·76	− ·25	36	35	− 2	ENE	4	0	2	0	#	39	34	0·12
	Skagen (The Scaw)	29·80	44	SE	3	0	29·69	− ·30	42	41	− 2	ESE	4	c	1	0	#	46	39	—
	Fanö	29·56	41	ESE	8	b	29·43	− ·40	41	38	+ 4	E	6	0	#	b	#	46	37	—
	Sumburgh Head	29·75	45	ENE	2	0	29·57	− ·28	42	40	− 4	NE	1	c	4	bc, o	#	49	40	0·01
	Stornoway ...	29·59	48	ESE	5	r	29·54	− ·10	45	43	− 5	ESE	3	b	3	c, rq	1·2	52	40	0·15
	Wick	29·65	46	SE	8	0	29·55	− ·18	45	43	− 3	SE	3	c	6	0	#	51	41	0·25
	Nairn	29·58	45	ENE	3	c	29·51	− ·14	40	38	− 7	E	1	bc	1	c	#	48	34	—
	Aberdeen ...	29·57	47	ESE	8	gq	29·49	− ·17	43	41	− 4	E	6	c	7	ogq, p	0·0	49	42	0·07
BRITISH ISLANDS.	Leith	29·44	48	E	3	0	29·36	− ·17	49	44	0	ENE	4	0	#	0	#	49	45	0·02
	Shields	29·38	48	E	5	0	29·29	− ·19	48	47	− 3	E	5	op	6	or	#	51	45	0·66
	Spurn Head ...	29·35	51	E	6	oq	29·13	− ·23	49	48	− 3	E	6	rq	6	oq	#	52	48	0·03
	York	29·29	48	N	2	o, r	29·20	− ·22	47	46	− 2	ENE	2	r	#	0	0·0	52	46	0·24
	Loughborough ...	29·22	48	ENE	3	0	29·14	− ·20	46	45	− 2	E	3	om	#	o, op	#	53	46	0·03
	Ardrossan ...	29·36	47	NE	6	om	29·33	− ·10	46	44	− 4	NE	3	cm	2	om	#	50	45	—
	Malin Head ...	29·26	50	ESE	9	omq	29·25	− ·07	49	47	− 3	ESE	7	bq	5	omq	#	54	47	0·02
	Belmullet ...	29·17	51	E	5	0	? 29·17	+ ·06	50	47	− 2	E	4	0	#	0	#	52	46	0·03
	Donaghadee ...	29·25	51	E	8	r	29·24	− ·12	49	47	− 3	ENE	9	c	7	r	#	53	47	0·12
	Liverpool (Bidston)	29·20	47	E	4	0	29·16	− ·15	48	45	− 2	E	3	0	?	0	#	52	45	0·09
	Holyhead ...	29·16	50	E	7	omgq	29·11	− ·14	49	47	− 2	E	6	op	4	rg, gmq	#	50	46	0·19
	Parsonstown ...	29·08	49	SE	1	r	29·07	− ·07	49	47	− 2	E	2	0	#	o, r	0·0	52	47	0·04
	Valencia ...	28·93	53	ENE	5	0	28·91	− ·06	51	49	− 4	ENE	5	cq	4	p, o	0·0	58	50	0·15
	Roche's Point ..	28·94	55	SE	7	p	28·93	− ·09	54	53	− 2	ESE	6	r	5	rtlq	#	56	50	1·85
	Pembroke (St. Ann's Hd.)	29·11	51	ESE	6	0	28·98	− ·13	51	48	− 1	E	6	oq	4	0	0·0	53	49	0·14
	Scilly	28·93	57	S	3	0	28·83	− ·18	57	56	+ 1	ESE	5	r	4	c, op, rt	1·5	58	54	0·18
	Prawle Point ...	29·04	54	SE	3	0	28·94	− ·17	55	53	0	ESE	4	bcw	4	cp, d	#	59	50	0·31
	Jersey (St. Aubin's)	29·07	57	SSE	3	0	29·02	− ·04	57	55	+ 2	SSW	4	opm	3	org,	#	60	54	0·07
	Hurst Castle ...	29·09	53	ENE	3	0	29·02	− ·16	52	51	− 1	NE	3	om	2	rm, om	#	54	51	0·02
	Dungeness ...	29·10	52	WNW	1	0	29·02	− ·19	48	48	− 1	N	1	fp	1	op, f	#	53	46	0·06
	North Foreland	29·10	53	E	3	0	29·03	− ·23	? 51	? 50	0	S	1	0	1	0	#	54	46	0·05
	London (Brixton) ...	29·12	50	E	2	od	29·08	− ·17	49	48	− 2	E	1	og	#	or	0·0	51	48	0·09
	Oxford	29·14	47	NE	2	0	29·09	− ·16	47	46	− 2	NE	2	og	#	or	#	51	47	0·05
	Cambridge ...	29·17	48	NE	2	d	29·07	− ·23	48	47	− 2	NNE	2	d	#	mg, d	0·0	53	46	0·01
	Yarmouth ...	29·18	50	E	6	orgq	29·08	− ·26	50	48	− 1	E	7	cgq	6	cg, prq	#	52	48	0·26
GERMANY & HOLLAND.	Cuxhaven ...	29·46	42	E	7	0	29·31	− ·37	35	34	0	E	6	0	#	0	#	42	34	0·04
	Berlin	29·49	37	ESE	5	0	29·26	− ·49	37	36	+ 4	ESE	4	r	#	0	#	37	33	0·04
	Wiesbaden ...	#	#	#	#	#	29·22	− ·26	47	46	+ 2	SW	1	r	#	#	#	48	45	0·20
	Munich... ..	29·36	44	E	2	c	29·36	− ·16	48	48	+ 9	SSW	5	0	#	c	#	48	39	0·24
	The Helder ...	29·26	42	E	4	0	29·19	− ·26	38	37	− 3	E	4	0	?	0	#	43	?	—
BELGIUM.	Brussels ...	#	#	#	#	#									#		#			
	Cape Gris Nez...	?	55	W	3	r	?	?	53	51	+ 7	S	2	0	2	r	#	55	46	0·51
	Paris	29·19	54	S	2	0	29·13	− ·14	54	52	+ 3	SSW	4	bc	#	0	#	58	51	0·20
	Brest	29·04	59	SSW	2	c	28·93	− ·15	55	55	0	W	3	r	6	c	#	61	50	1·14
	Lorient... ...	29·09	59	SW	4	0	29·00	− ·15	59	56	+ 4	SW	6	r	6	0	#	66	54	0·55
FRANCE &	Rochefort ...	29·27	63	SW	6	0	29·28	+ ·07	62	57	+ 6	SW	5	c	#	0	#	66	50	0·43
	Belfort	29·23	54	NNE	3	r	29·25	− ·17	53	51	+ 9	SW	6	r	#	r	#	55	54	0·71
	Lyons	29·89	60	S	2	r	29·38	− ·05	56	55	+ 5	S	1	r	#	r	#	63	51	0·12
	Nice	29·51	51	SW	1	0	29·38	− ·15	59	56	+ 5	2	0	bc	4	0	#	59	54	0·08
	Perpignan ...	29·44	60	NE	1	0	29·43	− ·08	53	53	+ 2	SW	1	0	#	0	#	71	51	—
	Biarritz ...	29·30	63	N	2	0	29·27	− ·07	66	58	− 2	SSW	4	0	5	0	#	70	57	0·20
PENINSULA.	Corunna ...																#			
	Lisbon														#		#			
	Azores (P. Delgada)	29·82	64	NW	3	bc	29·85	+ ·09	64	56	− 4	NW	3	bc	4	bc	#	72	61	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

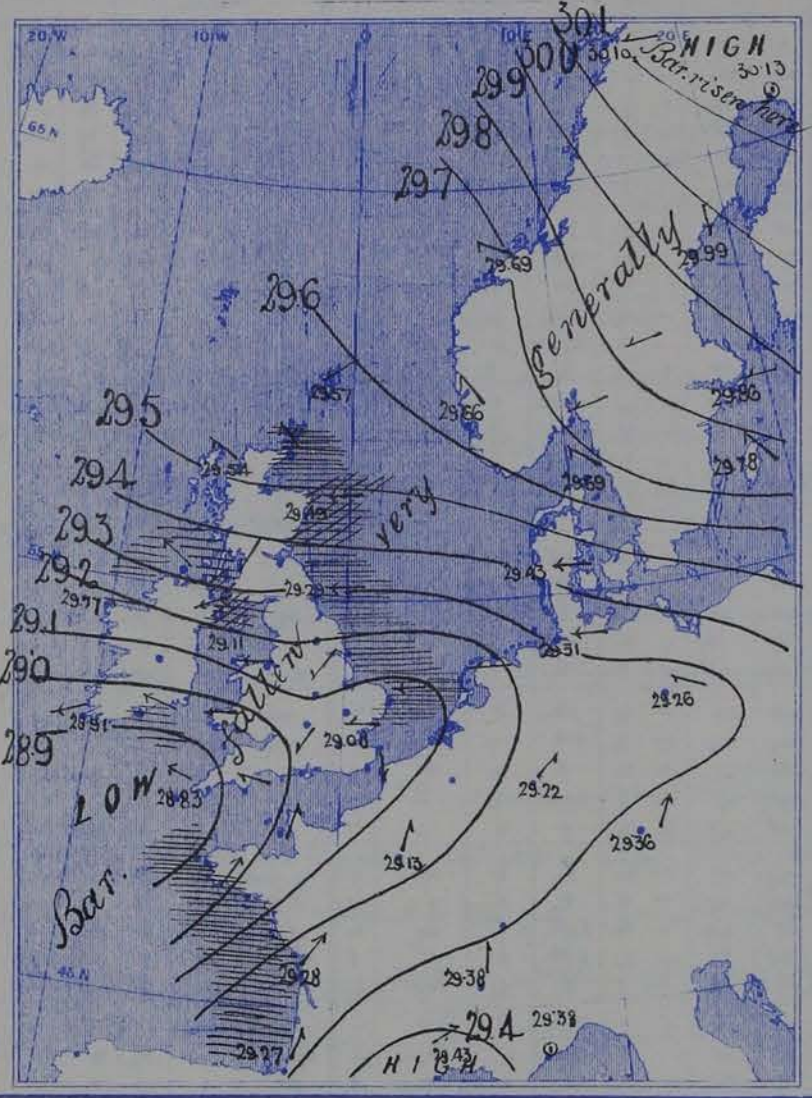
Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

FOR Sunday, 16th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31		–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51		–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6		–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–		5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22		–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and upwards, in an anticyclone over the north of Scandinavia.
Lowest, 28·8 in: and less, in a rather deep depression with its centre near the mouth of the English Channel.
Gradients steep or rather so over northwestern Europe as a whole, but slight over the southern part of England.
Barometer falling generally, but rising a little at Valencia (Ireland).

TEMPERATURE

Highest, 66° at Biarritz, 62° at Rochefort, 59° at Lorient and Nice, and 57° at Scilly and Jersey.
Lowest, 23° at Haparanda, 28° at Bodö and Hernösand, and 33° at Karlstad, lowest in our Islands 40° at Nairn and 42° at Lerwick & Stornoway.
The maxima registered yesterday were below 55° in all but the southwestern parts of the United Kingdom, and below 50° on several parts of the Scotch coasts.

WIND

E³ over the greater part of our Islands, the North Sea, Scandinavia, Denmark, and North Germany, and strong to a gale in force on our east and western coasts.
Moderate to strong from the S.W. or S.W. over France; calm or N³ over the Gulf of Bothnia.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain in many parts of Ireland, England, France, and Germany, and snow at several of the Scandinavian stations.
Fair or fine in Scotland and also in the west of Norway.
Since yesterday morning rain has fallen over nearly the whole of Western Europe; the largest amounts being 1·9 in: at Rochefort, 1·1 in: at Brest, and 0·7 in: at Shields and Belfort. Thunder and lightning occurred last night at Roche Point and Scilly, and lightning only at Prawle Point.

SEA

High at Aberdeen and Donaghadee, and rough or rather so on our northwest, north, and east coasts generally as well as in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 17 OCTOBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	⚠ 6 SCOTLAND WEST	NONE ISSUED.
⚠ 1 SCOTLAND EAST		⚠ 7 ENGLAND N.W.	
⚠ 2 ENGLAND N.E.		⚠ 8 ENGLAND S.W.	
⚠ 3 ENGLAND EAST		⚠ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		⚠ 10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The signals were rehoisted yesterday in districts 1 to 3, 7, and 9, and are still flying on all coasts excepting 0. and 5.

Note.—The **South Cone**, *point downwards* (⚠), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (⚠), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.86	50	44	SSE	2	bc	3	Valencia	28.92	57	53	SSE	3	p	4
Sumburgh Head	29.79	48	45	ENE	3	bc	5	Scilly	28.95	56	55	SE	5	c	3
Stornoway	29.61	52	48	ESE	6	c	7	Jersey	29.11	58	53	SE	3	c	3
Aberdeen	29.61	47	43	ESE	9	ospq	8	Hurst Castle ...	29.11	52	52	ENE	3	rw	3
Shields	29.41	49	47	E	5	r	5	Dungeness ...	29.11	51	50	ENE	2	op	2
Ardrossan	29.38	49	49	NE	6	om	2	North Foreland	29.13	51	50	E	4	o	3
Malin Head ...	29.27	51	48	ESE	8	o	6	London (Westminster)	29.14	52	50	E	3	oap	*
Belmullet	29.18	52	49	E	5	o	*	Yarmouth ...	29.23	50	48	E	6	cg	5
Holyhead	29.19	50	49	E	7	rmg	5	Rochefort ...	29.27	64	61	W	6	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over nearly the whole of ~~our Islands and the Continent~~ Europe, with rain in many parts of our Islands, France and Spain, as well as at Trieste. Fine at several of the Scandinavian and Danish stations, and also in the south of Russia. Rain falling during day in nearly all parts of Western Europe, – heavily in the south of Ireland and the northwest of France, as well as in some parts of the north of England. Thunderstorms or lightning only occurring on our southwest coast at night.

Temperature fallen in the north of our Islands and the northern and eastern parts of the Continent, risen in most other localities. Morning readings highest 78° at Malta, 72° at Brindisi, and 69° at Algiers; above 60° in most parts of southern Europe. Lowest 19° at Hernösand, 22° at Warsaw, 23° at Kiew, and 24° at Archangel and Moscow; below the freezing point over nearly the whole of Sweden, Russia, and eastern Germany. Daily maxima in our Islands below 55° on all but our extreme southwest coasts, and below 50° at many of the Scotch stations. Thermometer exceeding 65° in the north and south of France, and reaching 71° at Perpignan.

Wind strong from the SW^ly over the Iberian Peninsula and the southwest of France; light to moderate from the S^ly over the northern and central parts of France; strong to a gale from the E^ly or SE^ly in nearly all parts of our Islands and also over the southern parts of the North Sea, and moderate from the same quarters in Germany. N^ly over Sweden and northern Russia; calm in the south of Russia; variable or S^ly in Italy. No important change occurring over Western Europe during day.

Barometer highest 30·2 in. and upwards in the extreme south of Russia, 30·0 in. and upwards, in an anticyclone embracing the whole of Scandinavia and western and southern Russia. Lowest 29·0 in. and less, in a deep depression with its centre off our own southwestern coast. Depression advancing slowly eastwards during day, and barometer falling in most parts of Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Monday, 17th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30.18	22	NE	2	b	30.23	+.10	23	22	0	NE	2	bc	*	b	*	28	16	-
	Hernösand ...	30.06	30	E	4	S	30.13	+.14	26	25	-2	N	6	S	*	S	*	34	25	0.35
	Stockholm ...	29.88	36	E	4	S	29.93	+.07	31	27	-3	NNE	2	b	*	S	*	44	28	-
	Wisby	29.79	34	SE	4	S	29.82	+.04	33	32	-1	E	4	bc	*	S	*	39	28	0.16
	Karlstad ...	29.84	34	ENE	4	0	29.94	+.12	33	30	0	NE	4	c	*	0	*	*	*	0.04
	Bodo	30.15	30	E	2	b	30.22	+.12	29	25	+1	E	4	b	1	b	*	30	25	-
	Christiansund ...	29.76	39	ESE	6	b	29.89	+.20	35	32	-2	ESE	3	b	2	b	*	43	35	-
	Skudesnaes ...	29.71	42	E	6	b	29.74	+.08	41	35	-3	ESE	6	bc	4	b	*	47	39	*
	Faerder (Christiania Fjord)	29.79	38	ENE	5	0	29.86	+.10	36	34	0	ENE	6	0	3	0	*	39	36	-
	Skagen (The Scaw)	29.70	41	ESE	6	0	29.76	+.07	39	36	-3	E	6	0	2	0	*	45	37	-
	Fanö	29.43	40	E	8	r	29.43	.00	40	39	-1	E	8	0	*	r	*	45	39	-
British Isles	Sumburgh Head	29.53	44	N	0	0	29.63	+.06	45	43	+3	ESE	4	c	6	0	*	46	42	0.05
	Stornoway ...	29.49	45	E	3	p	29.43	-.11	44	42	-1	ESE	3	c	4	chpr	7.0	53	39	0.03
	Wick ...	29.51	49	SE	4	c	29.49	-.06	43	42	-2	SE	7	orsp	8	chqp	*	53	42	0.15
	Nairn	29.46	40	E	1	b	29.42	-.09	39	38	-1	N	0	c	1	b	*	49	27	0.02
	Aberdeen ...	29.44	45	E	8	cqp	29.40	-.09	43	42	0	E	8	ogqp	8	qph	4.3	50	43	0.07
	Leith	29.33	46	ENE	4	0	29.23	-.13	48	45	-1	ENE	4	0	*	ohp	*	53	44	0.11
	Shields	29.25	48	E	5	op	29.12	-.17	48	47	0	E	5	r	6	op	*	49	46	0.18
	Spurn Head ...	29.09	50	ESE	6	r	28.94	-.19	54	54	+5	E	4	rq	6	rq	*	54	48	0.16
	York	29.17	47	E	1	r	28.99	-.21	50	49	+3	ENE	1	r	*	or	0.0	50	45	0.72
	Loughborough ...	29.07	47	NE	2	r	28.90	-.24	53	52	+7	ESE	1	ogma	*	oa.omp	*	53	46	0.50
	Ardrossan ...	29.30	45	NE	3	c	29.18	-.15	47	46	+1	NE	5	om	2	c	*	51	42	-
	Malin Head ...	29.27	49	SSW	7	cq	29.18	-.07	48	45	-1	ENE	6	oq	5	o.cq	*	51	45	0.01
	Belmullet ...	29.24	50	ENE	5	o	29.26	+.09	44	44	-6	NE	4	o	*	o	*	50	44	0.03
	Donaghadee ...	29.22	50	ENE	9	c	29.09	-.15	51	47	+2	ENE	9	c	7	c	*	51	47	-
	Liverpool (Bidston)	29.09	47	ENE	3	o	28.90	-.26	48	47	0	NE	4	r	?	or	*	50	47	0.91
	Holyhead ...	29.07	50	ENE	6	o	28.91	-.20	51	50	+2	ENE	7	rq	6	o	*	51	47	0.06
	Parsonstown ...	29.07	49	E	2	o	29.09	+.02	46	44	-3	NW	2	o	*	o.or	0.2	52	44	0.05
	Valencia ...	28.97	52	NE	6	cq	29.06	+.15	49	45	-2	NNE	7	cq	5	o,cq	0.5	54	47	-
	Roche's Point ...	28.95	52	ENE	6	c	28.92	-.01	49	47	-5	NNE	6	o	4	a.c	*	55	48	0.12
	Pembroke (St. Ann's Hd.)	28.91	51	E	6	o	28.78	-.20	51	50	0	ENE	4	og	3	c.o	3.9	54	48	0.06
	Scilly	28.71	56	ENE	4	r	28.63	-.20	57	56	0	NE	5	r	5	r	0.6	58	55	0.95
	Prawle Point ...	28.84	57	SSE	5	o	28.71	-.23	56	56	+1	SE	6	r	5	or	*	57	51	1.04
	Jersey (St. Aubin's)	28.96	60	SSW	5	cp	28.83	-.19	58	56	+1	SSE	6	opm	5	tlr.p	*	62	55	1.01
	Hurst Castle ...	28.93	57	S	4	rq	28.86	-.16	59	57	+7	S	5	om	3	rq	*	59	57	0.44
	Dungeness ...	29.01	56	SSW	5	c	28.99	-.03	58	57	+10	SSE	6	cq	5	cpq	*	60	47	0.26
	North Foreland	29.03	56	SSE	1	r	28.99	-.04	57	55	+7	SSE	2	b	2	c.r	*	57	51	0.25
	London (Brixton) ...	29.01	51	N	0	ogm	28.94	-.14	56	53	+7	SSE	2	bc	*	om.or	0.0	56	49	0.33
	Oxford	28.97	50	ENE	2	r	28.88	-.21	55	53	+8	SE	2	ogr	*	ogp	*	55	49	0.74
	Cambridge ...	29.03	52	ENE	2	r	28.94	-.13	54	53	+6	SSE	2	b	*	or	0.0	54	47	0.15
	Yarmouth ...	29.08	50	E	6	oggr	28.99	-.09	56	55	+6	SSE	4	bc	5	gmr	*	56	48	0.64
Germany & Holland	Cuxhaven ...	29.31	36	E	5	0	29.32	+.01	37	36	+2	E	6	r	*	0	*	37	35	0.12
	Berlin	29.36	37	NE	2	0	29.40	+.14	36	35	-1	ENE	4	r	*	0	*	39	36	0.08
	Wiesbaden ...	*	*	*	*	*	29.26	+.04	48	48	+1	N	0	0	*	*	*	57	46	0.08
	Munich	29.45	50	SSE	3	b	29.33	-.03	49	47	+1	E	3	c	*	b	*	59	45	0.04
	The Helder ...																*			
Belgium	Brussels ...	*	*	*	*	*	29.13		50	49		SE	5	0	*	b	*	57	48	0.08
	Cape Gris Nez ...	?	?	SW	4	0	?	?	54	51	+1	S	4	c	4	0	*	54	50	0.47
	Paris	29.19	55	S	3	bc	29.00	-.13	53	52	-1	SSE	3	r	*	bc	*	62	50	0.20
	Brest	28.84	59	SW	5	c	28.65	-.28	59	58	+4	S	1	c	6	c	*	63	50	0.67
	Lorient	28.93	59	SW	9	r	28.77	-.23	60	60	+1	S	9	0	7	r	*	64	54	0.24
France	Rochefort ...	29.23	62	S	3	c	29.08	-.20	62	60	0	SSW	4	bc	*	c	*	66	57	-
	Belfort	29.32	56	SW	3	r	29.13	-.12	50	49	-3	? SSE	4	r	*	r	*	65	48	0.04
	Lyons	29.36	61	S	1	o	29.17	-.21	60	58	+4	SSW	1	r	*	o	*	69	52	0.20
	Nice	29.46	62	SW	4	o	29.34	-.04	61	61	+2	SW	7	f	6	o	*	73	59	1.77
	Perpignan ...	29.34	61	N	0	c	29.19	-.24	63	56	+10	SSW	4	c	*	c	*	69	53	0.04
	Biarritz ...	29.21	68	SW	3	o	29.12	-.15	62	53	-4	SSW	4	bc	6	o	*	70	59	-
Peninsula	Corunna ...																*			
	Lisbon	29.49	61	NW	5	bc	29.49		60	56		NW	5	c	*	bc	*	64	57	0.16
	Azores (P. Delgada)	29.88	62	NW	4	bc	29.88	+.03	59	55	-5	NW	4	bc	4	bc	*	66	57	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

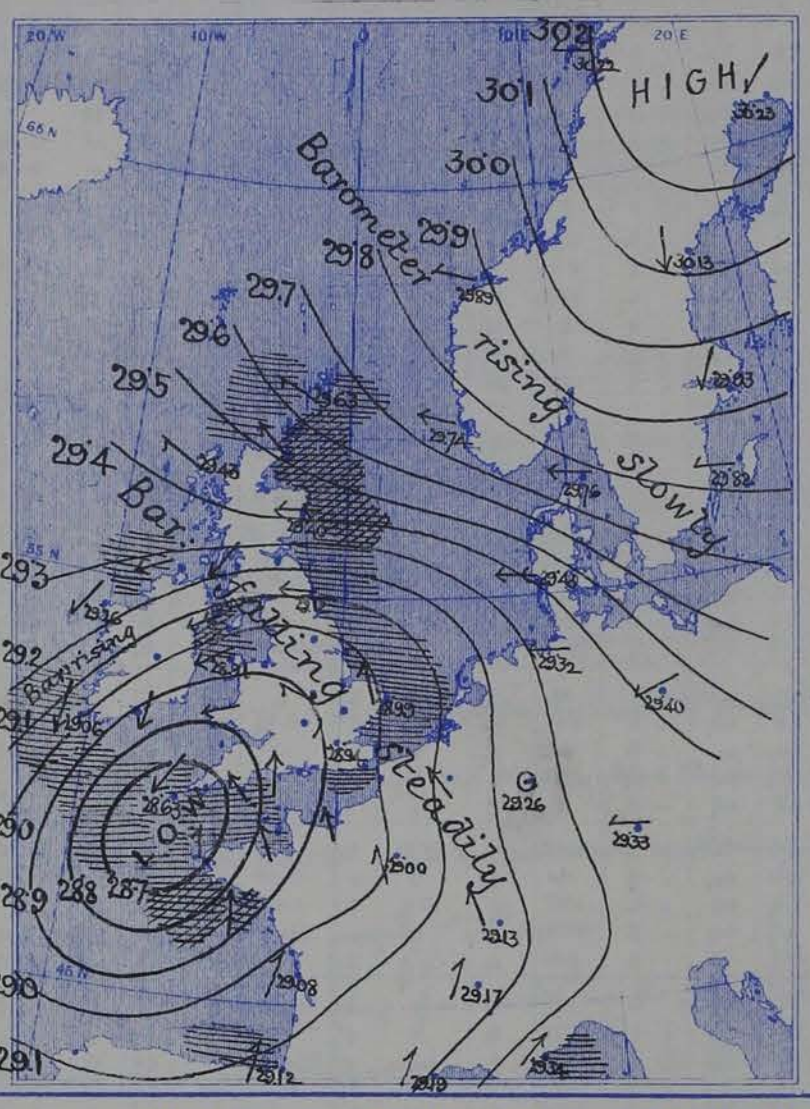
Bright Sunshine yesterday Southport 0.4 *hrs;*

WEATHER CHARTS

FOR Monday, 17th October, 1898

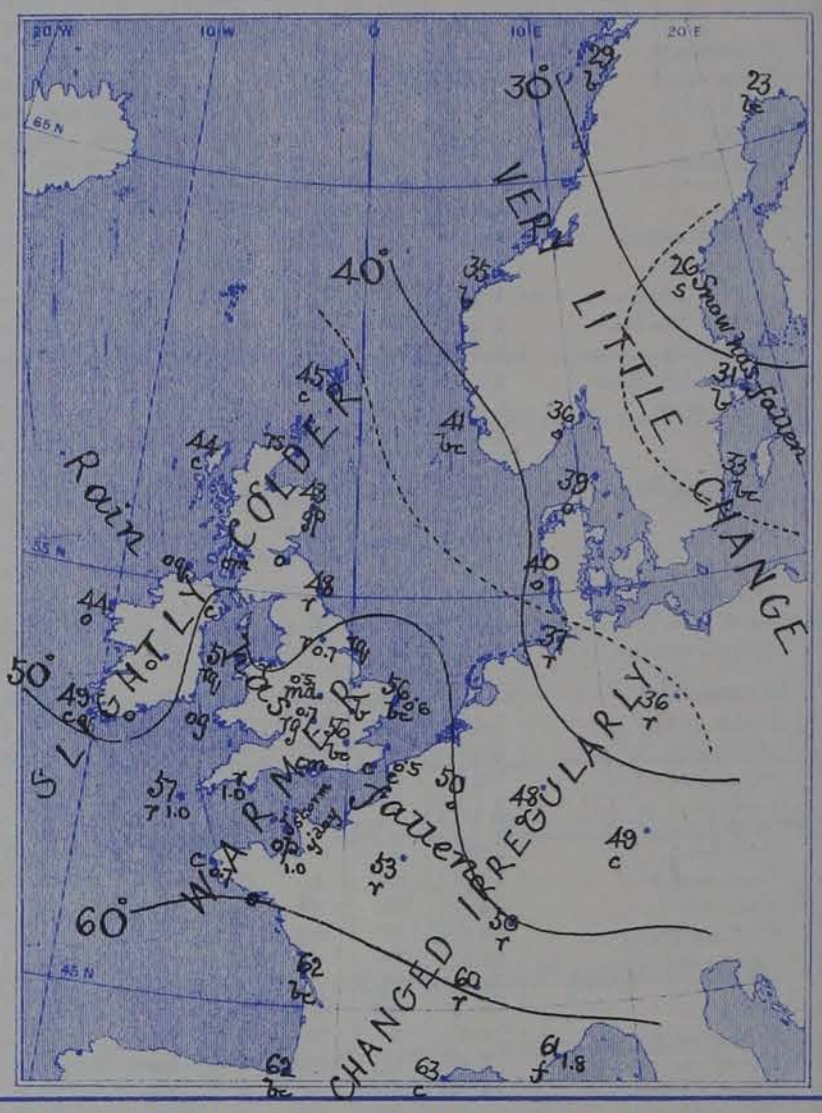
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR, 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31		—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—			—
Belmullet	29·846	49·4	46·4	53·9	46·0		—			5·18		—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards in an anticyclone lying over the north of Scandinavia.
Lowest, 28·7 in: and less, in a deep depression with its centre at the mouth of the English Channel.
Gradients steep over Western Europe as a whole, but slight over Germany and the central and southern parts of France.
Barometer falling in most parts of our Islands and France, but rising slightly at Valencia (Ireland) rising in Scandinavia, Denmark, and North Germany.

TEMPERATURE

Highest, 63° at Perpignan, 62° at Biarritz and Rochefort, 61° at Nice, 60° at Brest, Lyons, and Lisbon, and 59° at Hurst Castle.
Lowest, 23° at Haparanda, 26° at Hernösand, 29° at Bodö and 31° at Stockholm; lowest in our Islands 39° at Nairn, and 43° at Wick and Aberdeen.
The maxima registered yesterday were below 55° at all but our southern stations, and below 50° on some part of our north and northeast coasts.

WIND

Moderate to fresh from the SW^ly over the south of France and at Lisbon; strong from the S^ly or SE^ly over the English Channel and the northern part of France with a gale at Lorient.
Strong from the E^ly over the North Sea and all adjacent coasts, with a gale at Fair Isle and Aberdeen, light to moderate from the same quarter or from NE. in the north of Scandinavia.
NE on the east coasts of our Islands, with a strong gale at Donaghadee.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain in the southwest, west and north of England, and also in Central France and North Germany, and with showers in the northeast of Scotland, clear at Wick.
Fine in the east and southeast of England, as well as in the southwest of France and at most of the Scandinavian stations, but snow falling at Hernösand.
Rain fell yesterday in nearly all parts of Western Europe, the largest amounts being 1·8 in: at Nice, 1·0 inch at Scilly, Prawle Point and Jersey, and 0·7 in: at York, Oxford and Brest. A thunderstorm occurred at Jersey in the morning. Snowfall yesterday at several of the Swedish stations.

SEA

Very high off the northeast of Scotland, high at Donaghadee and Lorient, and rough on our own and the French coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression in the southwest seems to be almost stationary, but is inclined to spread out in a northerly direction. Rough unsettled weather seems likely to continue for a time, with gales on many parts of our coasts.

FORECASTS

For the 24 hours ending at NOON on 18th Octr 1898

DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH	SE^ly to E^ly gales and strong winds; squally, showery.
↓ 1 SCOTLAND EAST ↓ 2 ENGLAND N.E.	E^ly winds, strong to a gale; squally, rainy.
↓ 3 ENGLAND EAST 4 MIDLAND COUNTIES ↓ 5 ENGLAND SOUTH	SE^ly winds, strong to a gale on coast; changeable, some rain.
↓ 6 SCOTLAND WEST	E^ly and NE^ly winds, increasing to a gale; squally, some rain.
↓ 7 ENGLAND N.W.	NE^ly gales and strong winds; squally, rainy.
↓ 8 ENGLAND S.W.	NE^ly to N^ly gales and strong winds; some rain.
↓ 9 IRELAND NORTH	Same as No 7.
↓ 10 IRELAND SOUTH	Same as No 8.
WARNINGS	At 7·30 pm yesterday to district 5, and at 10 am today to districts 0, 6, 8 and 10. "Hoist North Cone" The signals are now flying on all coasts.

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.66	47	39	E	4	6	3
Sumburgh Head							
Stornoway	29.50	52	46	ESE	3	chp	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.27	50	50	ESE	7	0	6
Belmullet	29.28	50	48	E	5	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	28.98	60	57	SW	4	0	3
Hurst Castle ...							
Dungeness ...	29.01	57	56	nSW	4	c	4
North Foreland	29.04	57	56	W	0	c	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.27	66	64	SW	5	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF THE WEATHER OVER EUROPE FROM THE 9TH TO THE 15TH OCTOBER 1898.

During the early part of the week the distribution of pressure was very complex. At the very commencement of the time when an anticyclone lay over Scandinavia and Denmark, a V shaped depression advanced eastwards across our Islands and occasioned rain in most parts of northwestern Europe. On reaching our northeast coasts the depression dispersed, while a new anticyclone spread over the United Kingdom from the southwestward, the latter system causing foggy or misty weather in many places. On the 11th a shallow depression was formed over the Netherlands and the east of France, and heavy rain fell in many parts of those countries, as well as on the east coast of England, with freshening N. winds in the latter region. Next day the depression gradually dispersed, while another anticyclone was formed over northern Europe.

Low pressure systems now began to appear off our southwest coasts and to spread slowly eastwards, the wind over our Islands gradually shifting to the SE. or E. and blowing with the force of a gale in many places, with rain over nearly the whole Kingdom. The centre of the first depression reached the south of Ireland on the night of the 13th the system being followed by a deeper disturbance which advanced very slowly and which was still lying off our southwest coasts at the close of the week. Over Great Britain the rainfall was as a rule slight, but in the south of Ireland some very large amounts were reported the aggregate for the four days 12th–15th being as much as 3·6 in. at Rock Point, and 3·1 in. at Valencia. Thunder and lightning occurred at some of the English Channel stations on the 11th and on our southwest coasts on the night of the 15th.

Over Italy and the south of France heavy rains were occasioned about the middle of the week by a depression which was developed over the Gulf of Genoa, but which afterwards moved eastwards and filled up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 18th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...														#		#			
	Hernösand ...														#		#			
	Stockholm ...														#		#			
	Wisby														#		#			
	Karlstad ...														#		#	#	#	
	Bodö																#			
	Christiansund ...																#			
	Skudesnaes ...																#			#
	Færder (Christiania Fjord)																#			
	Skagen (The Scaw)	29.79	36	E	8	b	29.82	+ .06	38	35	− 1	E	6	o	2	b	#	41	34	—
	Fanö	29.47	39	E	9	o	29.55	+ .12	38	37	− 2	E	8	bc	#	o	#	43	37	—
BRITISH ISLANDS	Sumburgh Head	29.71	43	E	4	bc	29.76	+ .13	40	36	− 5	E	4	bc	6	c,bc	#	48	35	0.03
	Stornoway ...	29.49	46	SE	6	o	29.57	+ .14	45	42	+ 1	ESE	7	o	7	c,o	4.1	48	40	—
	Wick	29.57	45	E	8	c	29.65	+ .16	43	41	0	E	8	cw	9	c	#	49	39	0.05
	Nairn	29.46	42	ESE	4	r	29.54	+ .12	41	40	+ 2	ESE	4	r	4	r	#	47	37	0.15
	Aberdeen ...	29.41	44	E	10	orgq	29.53	+ .13	43	41	0	E	8	ogpq	9	ogpq	0.0	47	39	0.36
	Leith	29.21	45	ESE	7	r	29.32	+ .09	46	45	− 2	ENE	6	r	#	r	#	48	44	0.99
	Shields	29.02	58	E	6	r	29.20	+ .08	49	48	+ 1	E	6	op	7	r,b	#	52	48	1.20
	Spurn Head ...	28.97	56	ESE	4	o	28.98	+ .04	52	51	− 2	E	7	rq	7	o,r	#	51	51	0.14
	York	28.95	56	ESE	1	ep	29.08	+ .09	52	50	+ 2	ESE	4	p	#	r,epq	0.0	59	49	0.31
	Loughborough ...	28.92	57	SE	3	o	28.92	+ .02	53	52	0	NE	6	oqr	#	d,c,oqr	#	62	53	0.05
	Ardrossan ...	29.10	48	NE	8	rm	29.22	+ .04	48	46	+ 1	NE	7	orw	3	o,rm	#	49	42	0.05
	Malin Head ...	29.15	48	ENE	8	rq	29.05	− .13	50	49	+ 2	E	10	rq	7	c,rq	#	51	44	0.90
	Belmullet ...	29.23	49	ENE	4	r	29.13	− .13	49	48	+ 5	NNW	5	opq	#	r	#	51	44	0.40
	Donaghadee ...	29.01	50	ENE	9	o	29.07	− .02	53	51	+ 2	ENE	9	c	7	op	#	53	47	1.10
	Liverpool (Bidston)	28.86	56	E	3	orm	29.00	+ .10	53	50	+ 5	ENE	5	o	?	orm	#	57	48	0.49
	Holyhead ...	28.84	54	ENE	5	rgm	28.89	− .02	54	52	+ 3	E	5	cw	4	ogmp	#	55	49	0.48
	Parsonstown ...	29.03	48	NW	2	o	29.03	− .06	47	45	+ 1	W	1	o	#	o	0.0	50	44	—
	Valencia ...	29.11	52	N	4	ogp	29.21	+ .15	52	47	+ 3	NNW	6	ep	6	ogpq	0.2	53	46	0.17
	Roche's Point ..	28.97	51	N	6	o	29.11	+ .19	50	47	+ 1	NNW	5	b	4	o	#	52	46	—
	Pembroke (St. Ann's Hd.)	28.98	54	NNE	3	r	28.98	+ .20	50	49	− 1	NW	5	rgm	4	r	1.2	57	50	0.80
	Scilly	28.77	57	NNW	6	op	29.08	+ .45	53	50	− 4	NW	6	o	4	o,op	0.0	58	46	0.23
	Prawle Point ...	28.73	59	SE	3	ep	29.01	+ .30	51	50	− 5	W	5	epqw	4	ep,rqb	#	59	50	0.35
	Jersey (St. Aubin's)	28.74	62	SE	7	o	29.04	+ .21	55	53	− 3	W	6	crqm	5	bc,op	#	65	54	0.29
	Hurst Castle ...	28.82	60	SE	4	bc	28.91	+ .05	55	55	− 4	WSW	4	orm	3	op,bc	#	61	51	0.09
	Dungeness ...	28.96	60	SSE	4	c	28.91	− .08	58	56	0	S	7	ep	6	c,epq	#	61	56	0.16
	North Foreland	28.98	58	SE	4	c	28.94	− .05	58	56	+ 1	SSE	5	o	4	c	#	63	54	0.16
	London (Brixton) ...	28.93	56	SE	2	o	28.81	− .13	54	53	− 2	SSE	6	rq	#	bc,or,qr	3.3	65	54	0.42
	Oxford	28.89	56	E	3	o	28.80	− .08	54	53	− 1	N	3	r	#	op,r	#	61	52	0.45
	Cambridge ...	28.97	56	ESE	3	o	28.84	− .10	55	55	+ 1	ESE	3	dq	#	bc,o	7.1	68	52	0.15
	Yarmouth ...	29.03	56	SE	4	bc	28.98	− .01	57	55	+ 1	SE	6	rqq	6	bc,b	#	58	53	0.31
GERMANY & HOLLAND	Cuxhaven ...	29.33	38	E	6	o	29.41	+ .09	41	40	+ 4	ESE	6	epq	#	opq	#	41	36	0.16
	Berlin	29.30	35	NE	3	r	29.30	+ .10	35	34	− 1	NE	3	o	#	r	#	37	32	0.43
	Wiesbaden ...	#	#	#	#	#	29.37	+ .11	47	45	− 1	NE	1	c	#	#	#	54	45	0.12
	Munich... ..	29.32	48	W	6	o	29.51	+ .18	47	46	− 2	S	5	bc	#	o	#	55	41	0.39
	The Helder ...	29.15	45	ESE	3	m	29.18		41	40		E	4	r	6	m	#	52	41	0.28
BELGIUM	Brussels ...	#	#	#	#	#	29.15	+ .02	55	52	+ 5	SSE	4	c	#	o	#	60	50	0.04
	Cape Gris Nez...	?	57	S	2	bc	?	?	58	55	+ 4	SW	6	o	6	bc	#	64	50	0.08
	Paris	29.10	54	SSE	3	r	29.18	+ .18	55	52	+ 2	SSW	5	bc	#	r	#	64	51	0.39
	Brest	28.73	58	NW	2	o	29.16	+ .51	54	51	− 5	WNW	5	c	4	o	#	61	50	0.16
	Lorient... ...	28.77	59	W	6	r	29.18	+ .41	56	55	− 4	WNW	5	r	7	r	#	64	54	0.39
FRANCE	Rochefort ...	29.08	61	SW	8	r	29.29	+ .21	58	55	− 4	W	4	o	#	bc,rh	#	66	52	0.20
	Belfort	29.27	49	W	1	b	29.36	+ .23	50	47	0	NE	1	c	#	b	#	58	46	0.83
	Lyons ...	29.32	54	S	1	o	29.37	+ .20	51	51	− 9	ESE	1	o	#	o,bbr	#	60	51	0.51
	Nice	29.39	60	NW	4	c	29.44	+ .10	52	52	− 9	E	2	r	4	c	#	66	52	0.63
	Perpignan ...	29.29	61	SW	1	c	29.36	+ .17	56	55	− 7	SW	1	o	#	c	#	78	52	—
	Biarritz ...	29.21	66	SW	5	c	29.33	+ .21	59	56	− 3	W	4	o	4	c,b	#	70	59	—
PENINSULA	Corunna ...																#			
	Lisbon	29.59	60	W	4	r	29.87	+ .32	58	54	− 2	NW	4	bc	#	r	#	64	55	0.28
	Azores (P. Delgada)	30.02	60	NNW	3	b	30.02	+ .14	59	55	0	NNW	1	b	2	b	#	66	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

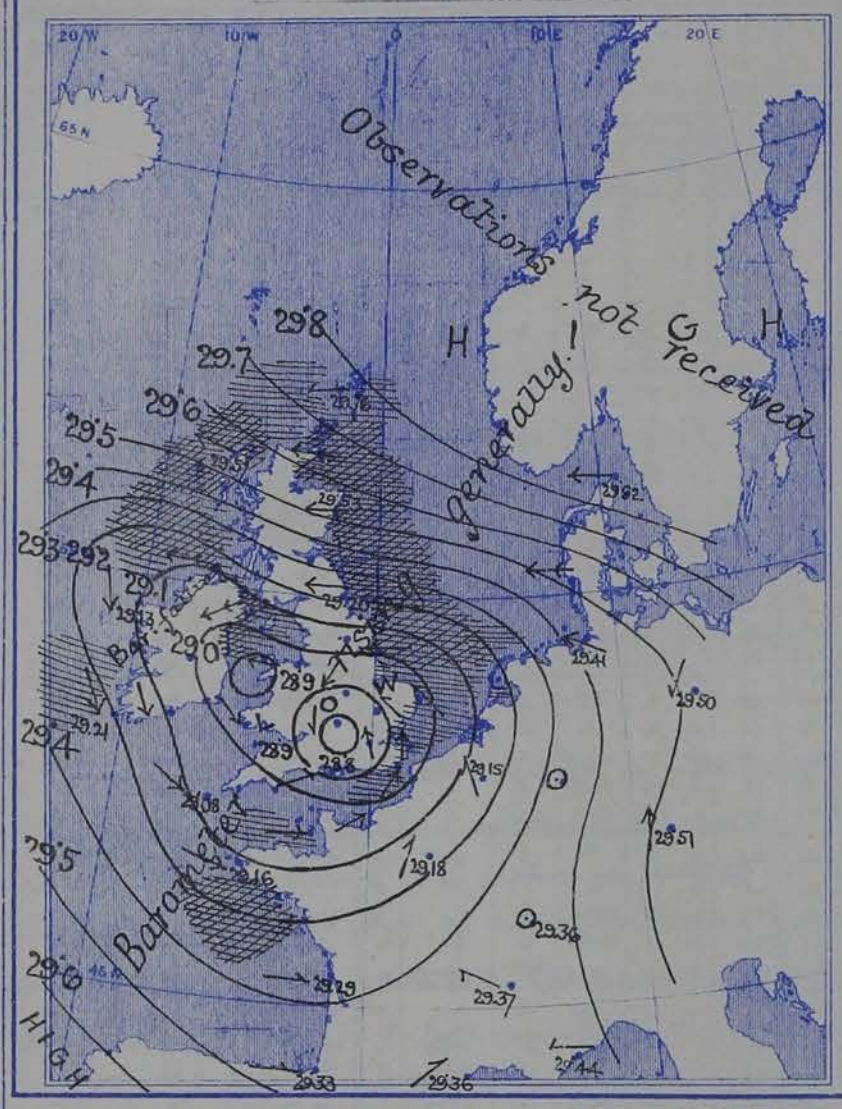
Bright Sunshine yesterday Southport. 0·0 hrs;

WEATHER CHARTS

FOR Tuesday, 18th October, 1898

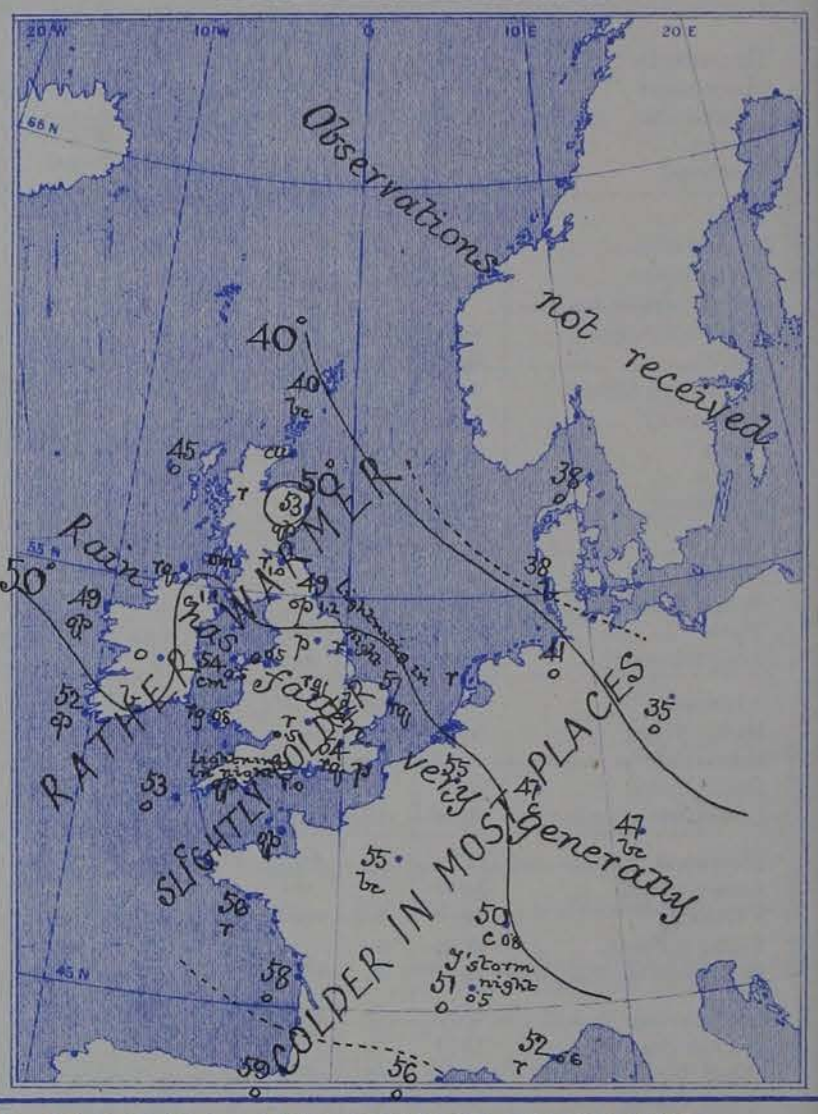
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.8 ins. and upwards in Portugal and also in the N. of Denmark. The Scandinavian reports have not yet arrived.
Lowest 28.8 ins. and less in a deep depression with two distinct minima, - one over N. Wales, and the other between London and Oxford.
Gradients steep over the North Sea and the N.rn parts of our Islands, rather steep in most other parts of W.rn Europe.
Barometer rising in most places, but falling a little in the N. of Ireland.

TEMPERATURE

Highest 59° at Biarritz, 58° at Dungeness, the N. Foreland, Rochefort and Lisbon, and 57° at Yarmouth.
Lowest 35° at Berlin, 38° at Skager and Fanö, 40° at Eumbugh Hd., and 41° at Nairn, Cuxhaven and the Helder.
During yesterday the thermometer rose to 60° and upwards over the central and S.rn parts of England, to 65° in London, and to 68° at Cambridge. In Scotland it failed to reach 50°.

WIND

Strong to a gale from the E.rly over the North Sea and all the more northern parts of our Islands; gale severe in the north of Ireland.
Strong from the NW.rly on our southwest coasts; moderate to strong from the W.rly over the Channel and Bay of Biscay; strong from the S.rly in the east and southeast of England.

WEATHER

Dull and unsettled over W.rn Europe as a whole, with rain or passing showers in many parts of the United Kingdom, as well as in the Netherlands and the N. of France.
Heavy rain fell yesterday in many parts of our Islands and France, the largest amounts being 1.2 ins. at Shields, 1.1 ins. at Donaghadee, and 1.0 in. at Leith and Kirkcastle. Thunder and lightning occurred last night at Lyons, and lightning only on the E. coasts of England, as well as at Prawle Pt. and Biarritz.

SEA

Exceedingly high off the NE. of Scotland, high on our NW. and N. and E. coasts generally, and rough or rather so in most other localities.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The complex depression over our Islands seems inclined to fill up gradually. Gales from the E.rly are, however, likely to continue for a time on our N.rn coasts, and strong squally winds in many other parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 19TH OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E.rly gales and strong winds; squally, rain at times.
1 SCOTLAND EAST	
2 ENGLAND N.E.	SE.rly winds strong a gale in places, squally and rainy at first, some improvement later.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	S.rly to SW.rly or W.rly winds strong to a gale at first, but moderating later, squally, showery.
5 ENGLAND SOUTH	
6 SCOTLAND WEST	E.rly and NE.rly gales and strong winds; squally, rain at times.
7 ENGLAND N.W.	
8 ENGLAND S.W.	NW.rly winds strong a gale in places; squally, showery.
9 IRELAND NORTH	Same as Nos. 6 and 7.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	At 3.30 pm. yesterday to districts 7 and 9, and at 7.30 pm to districts 1 to 3, keep up cone. The signals are still flying on all coasts.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.76	46	38	E	6	b	4
Sumburgh Head	29.68	44	41	E	4	c	6
Stornoway	29.45	48	44	E	5	c	5
Aberdeen	29.39	45	42	E	10	ogqp	9
Shields	29.04	49	48	NE	5	r	6
Ardrossan	29.12	49	47	NE	7	o	3
Malin Head ...	29.10	51	46	ENE	6	c	5
Belmullet	29.22	50	49	ENE	4	r	*
Holyhead	28.86	52	51	ENE	6	ogmp	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.09	52	47	N	6	ogq	5
Scilly	28.68	58	56	N	5	o	4
Jersey	28.79	63	60	SE	6	bc	5
Hurst Castle ...	28.84	61	59	SE	4	cp	3
Dungeness ...	28.96	60	56	S	5	c	4
North Foreland	28.98	58	57	SE	4	b	3
London (Westminster)	28.91	62	55	SSE	3	c	*
Yarmouth ...	29.01	58	56	SE	4	bc	4
Rochefort ...	29.08	66	64	SW	6	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky ; c. detached clouds ; d. drizzling rain ; f. fog ; g. dark, gloomy ; h. hail ; l. lightning ; m. misty (hazy) ; o. overcast ; p. passing showers ; q. squally ; r. rain ; s. snow ; t. thunder ; u. ugly, threatening ; v. visibility, unusual transparency ; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 19th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·25	22	W	0	b	30·32	+·15	28	27	+ 13	NW	2	c	*	b	*	28	9	-
	Hernösand ...	30·13	14	W	0	b	30·44	+·19	9	9	- 15	W	0	f	*	b	*	34	29	-
	Stockholm ...	30·17	30	N	2	c	30·37	+·36	30	28	- 1	NNE	2	b	*	c	*	34	28	-
	Wisby	30·16	31	E	4	b	30·31	+·45	35	30	+ 3	ESE	4	0	*	b	*	36	25	-
	Karlstad ...	30·19	29	NE	4	b	30·35	+·33	27	25	- 6	NE	2	b	*	b	*	*	*	-
	Bodö	30·32	32	E	2	bc	30·34	+·06	34	32	+ 9	E	2	S	1	bc	*	34	23	-
	Christiansund ...	30·17	34	ESE	6	b	30·21	+·06	33	29	+ 1	ESE	3	b	3	b	*	37	32	-
	Skudesnaes ...	29·99	38	E	7	bc	30·08	+·23	36	33	+ 1	E	8	S	4	o,b	*	43	34	*
	Færder (Christiania Fjord)	30·13	34	NE	6	b	30·27	+·34	33	32	- 1	ENE	6	0	3	b	*	36	30	0·08
	Skagen (The Scaw)	30·02	37	E	6	0	30·15	+·33	37	34	- 1	ESE	7	c	2	0	*	39	36	-
	Fanö	29·67	38	E	9	r	29·82	+·27	41	39	+ 3	ESE	8	0	*	r	*	43	37	0·08
BRITISH ISLANDS.	Sumburgh Head	29·88	39	E	4	c	29·90	+·14	41	38	+ 1	ESE	7	0	7	c	*	42	36	0·19
	Stornoway ...	29·64	43	ESE	6	0	29·68	+·11	43	41	- 2	ESE	7	0	7	c.0	5·2	48	39	-
	Wick	29·70	43	E	8	0	29·73	+·08	43	42	0	E	9	rhqu	9	0	*	48	36	0·40
	Nairn	29·62	42	ESE	4	r	29·64	+·10	43	41	+ 2	ESE	4	0	4	r	*	45	39	0·03
	Aberdeen ...	29·56	44	E	9	ogqr	29·52	-·01	49	48	+ 6	ESE	8	ogqr	9	gqr	0·0	49	40	0·48
	Leith	29·40	45	E	5	r	29·42	+·10	49	48	+ 3	NNE	4	0	*	r	*	49	45	0·22
	Shields	29·28	49	ENE	6	r	29·38	+·18	52	51	+ 3	E	3	b	6	ag	*	52	47	0·33
	Spurn Head ...	29·05	55	SSE	5	0	29·33	+·35	55	54	+ 3	SE	6	bq	6	or	*	55	50	0·44
	York	29·06	51	E	4	r	29·33	+·25	51	49	- 1	E	2	b	*	r	0·0	55	47	0·76
	Loughborough ...	28·97	53	S	4	0	29·23	+·31	49	48	- 4	SE	3	omr	*	rq.c.or	*	55	48	0·67
	Ardrossan ...	29·32	46	NE	8	om	29·42	+·20	45	44	- 3	NE	6	cm	2	cm.om	*	48	44	-
	Malin Head ...	29·29	49	ESE	8	rqm	29·46	+·41	48	45	- 2	ENE	4	c	3	r.rqm	*	50	38	0·05
	Belmullet ...	29·20	51	ESE	5	0	29·55	+·42	50	46	+ 1	E	3	0	*	r.0	*	54	46	0·14
	Donaghadee ...	29·27	51	ENE	9	c	29·38	+·31	50	48	- 3	ENE	8	c	6	c	*	54	48	0·08
	Liverpool (Bidston)	29·05	48	NE	4	0	29·25	+·25	50	48	- 3	ENE	3	0	?	ogp	*	54	48	0·19
	Holyhead ...	29·09	54	NE	7	qam	29·28	+·29	53	50	- 1	NE	3	0	2	cp.qam	*	55	50	0·12
	Parsonstown ...	29·20	50	W	0	r	29·44	+·41	46	44	- 1	W	0	0	*	o.r	0·0	52	44	0·13
	Valencia ...	29·29	53	W	6	cq	29·43	+·22	50	48	- 2	ENE	5	bc	5	bcq.cq	7·0	55	48	0·07
	Roche's Point ..	29·24	52	NNW	5	c	29·45	+·34	50	47	0.	NNW	3	b	3	c	*	55	48	-
	Pembroke (St. Ann's Hd.)	29·10	52	NNW	6.	r	29·30	+·32	51	50	+ 1	NW	5	gp	5	0	0·0	54	49	0·58
	Scilly	29·23	55	WNW	7	cp	29·42	+·34	54	53	+ 1	W	6	cq	4	cp	4·5	57	50	0·11
	Prawle Point ...	29·18	51	W	5	0	29·38	+·37	53	51	+ 2	W	6	cp	5	p.qpl	*	57	49	0·09
	Jersey (St. Aubin's)	29·26	55	WSW	5	cqp	29·45	+·41	56	52	+ 1	WSW	5	cpu	4	c.gp	*	59	53	0·07
	Hurst Castle ...	29·14	55	WSW	4	opq	29·35	+·44	55	54	0	WSW	6	rm	4	op.r	*	57	51	0·40
	Dungeness ...	29·16	58	SSW	7	c	29·42	+·51	57	54	- 1	SSW	7	cp	6	c	*	60	57	0·07
	North Foreland	29·21	56	S	4	bc	29·44	+·50	55	53	- 3	SSE	5	bp	3	bc	*	61	50	0·11
	London (Brixton) ...	29·13	54	SW	4	c	29·37	+·56	52	50	- 2	S	3	0	*	oqr.bc.op	1·0	59	49	0·36
	Oxford	29·08	51	SW	5	0	29·27	+·47	52	51	- 2	S	3	or	*	or	*	55	49	0·75
	Cambridge ...	29·10	55	SSW	4	0	29·35	+·51	51	50	- 4	S	4	ag	*	0	0·0	57	47	0·47
	Yarmouth ...	29·13	56	S	4	bc	29·44	+·46	55	53	- 2	SSE	5	b	5	c.bc	*	59	52	-
GERMANY & HOLLAND.	Cuxhaven ...	29·49	38	ESE	8	0	29·71	+·30	37	36	- 4	ESE	7	0	*	0	*	41	36	0·08
	Berlin	29·61	37	NE	4	0	29·80	+·30	35	34	0	NE	5	0	*	0	*	37	35	-
	Wiesbaden ...	*	*	*	*	*	29·55	+·18	51	51	+ 4	W	0	0	*	*	*	61	47	0·59
	Munich... ..	29·41	50	NE	4	b	29·58	+·07	50	50	+ 3	W	3	0	*	b	*	61	45	-
	The Helder ...																*			
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	29·56	+·41	48	47	- 7	S	1	b	*	b	*	63	43	0·04
	Cape Gris Nez...	?	57	WSW	7	0	?	?	48	46	- 10	S	5	bc	5	0	*	59	45	0·24
	Paris	29·37	52	WSW	2	b	29·58	+·40	43	43	- 12	S	1	b	*	b	*	64	41	-
	Brest	29·36	55	WNW	4	r	29·50	+·34	54	51	0	NW	4	bc	4	r	*	59	48	0·35
	Lorient... ...	29·40	55	WNW	5	0	29·56	+·38	52	49	- 4	NNW	3	r	4	0	*	59	50	0·08
	Rochefort ...	29·47	57	S	4	c	29·64	+·35	53	51	- 5	SW	3	r	*	c	*	61	50	0·35
	Belfort	29·39	50	SW	2	r	29·52	+·18	48	48	- 2	WSW	1	f	*	r	*	58	47	0·32
	Lyons	29·47	50	ESE	1	0	29·58	+·21	47	46	- 4	WNW	3	r	*	0	*	55	47	0·24
	Nice	29·43	57	E	1	c	29·43	-·01	53	51	+ 1	E	3	r	4	c	*	66	50	0·47
	Perpignan ...	29·54	53	NW	4	r	29·63	+·27	54	48	- 2	NW	3	bc	*	r	*	71	50	0·51
	Biarritz ...	29·55	57	W	6	r	29·66	+·33	53	51	- 6	WSW	6	r	5	rh	*	59	50	1·54
PENINSULA.	Corunna ...																*			
	Lisbon	30·02	59	WNW	3	b	30·04	+·23	61	59	+ 3	WSW	4	r	*	b	*	64	57	0·04
	Azores (P. Delgada)	30·02	68	SW	4	c	29·95	-·07	70	66	+ 11	SSW	4	0	5	c	*	70	59	-

For Explanation of Columns, see bottom of last page. *Erratum.— The 8 a.m. bar. reading at Holyhead yesterday should have been 28·99.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

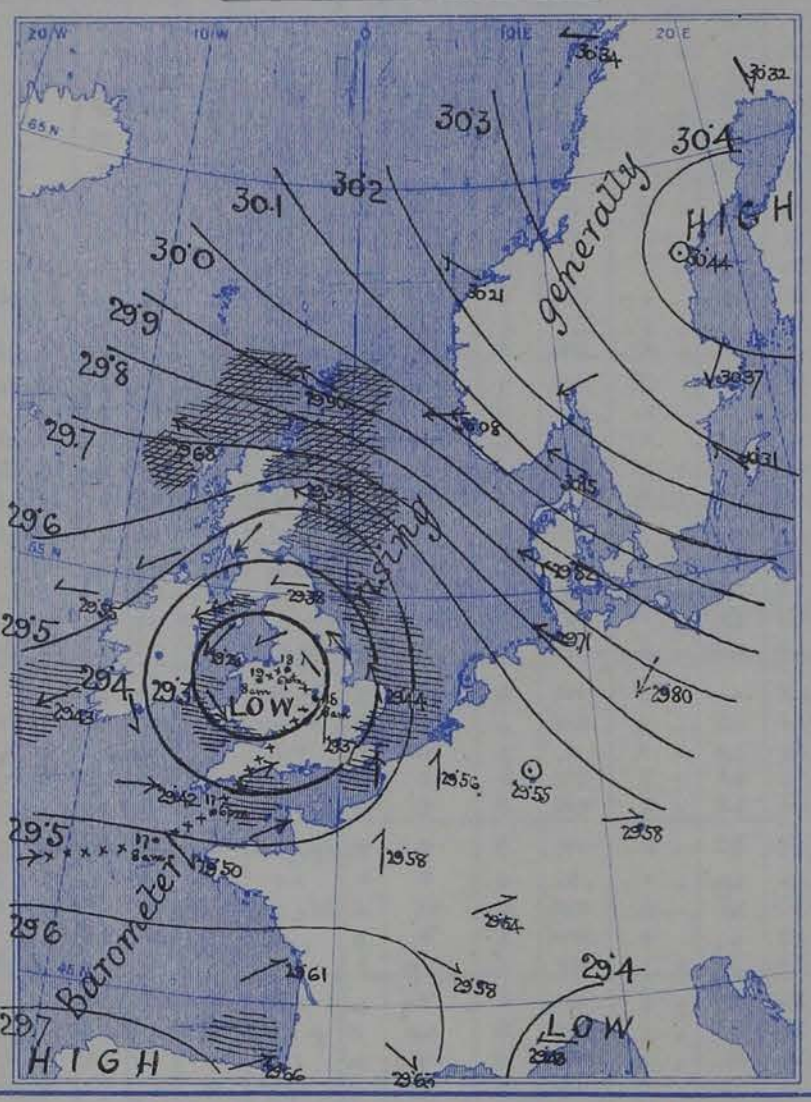
Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Wednesday, 19th October, 1898

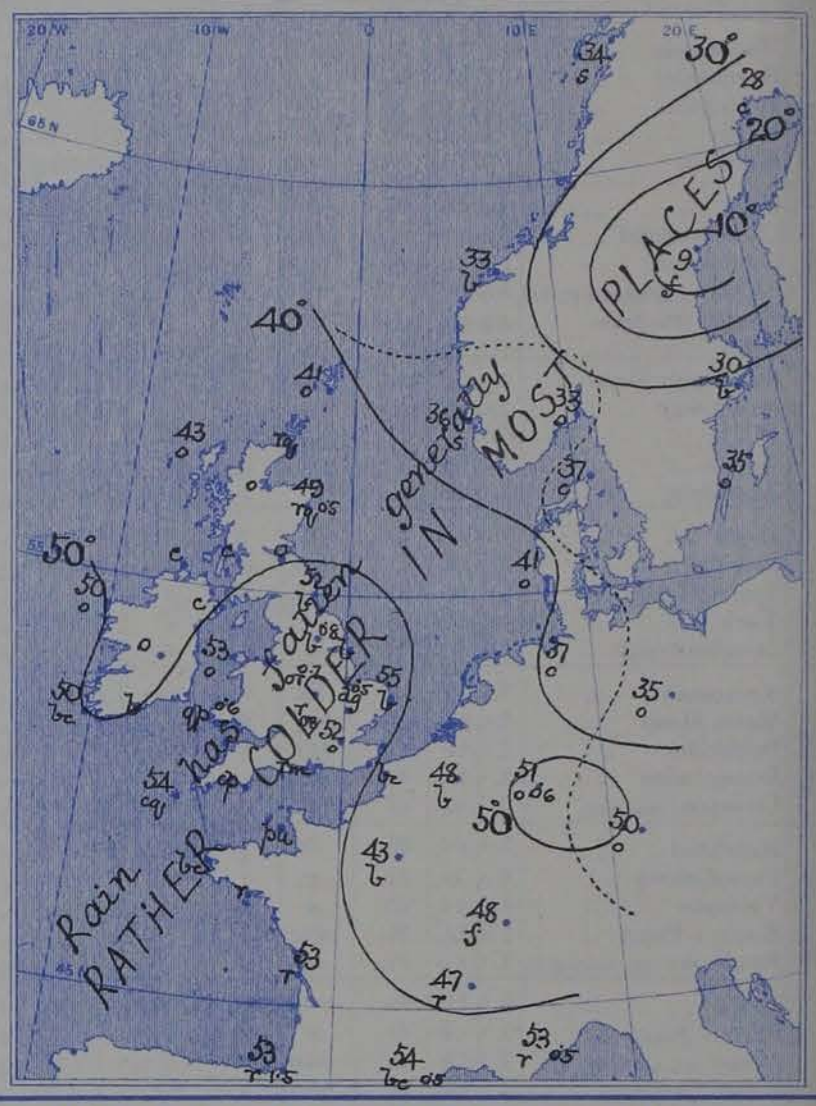
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF OCTOBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·44 in. at Hernösand; 30·1 in. and upwards in an anticyclone lying over the whole of Scandinavia; 30·0 in. and upwards in another system over the southern half of the Spanish Peninsula.
Lowest, 29·3 in. and less, in a depression with its central area over Wales and the central parts of England.
Gradients steep over the North Sea, but moderate or slight elsewhere.
Barometer rising generally, but falling a little in the east of Scotland.

TEMPERATURE

Highest, 61° at Lisbon, 57° at Dungeness, 56° at Jersey, and 55° at Spurn Head, Yarmouth, the North Foreland and Hunt Castle.
Lowest, 9° at Hernösand, 27° at Karlstad, 28° at Haparanda and 30° at Stockholm; lowest in our Islands 41° at Lerwick.
The maxima registered yesterday were below 50° in Scotland and below 55° at many of our western stations. At Dungeness, however, the thermometer rose to 60° and at the North Foreland to 61°.

WIND

Strong to a gale from the E. or SE. over Denmark, the south of Norway, the North Sea and the north of Scotland, and from the NE. in the north of Ireland.
Strong from the W. or SW. in the English Channel, and light or moderate from the same quarters in France.
Calm or light from the N. (NE to NW) in Sweden.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain or passing showers in many parts of England, France, and also in the northeast of Scotland, Norway, Fiords and Shetlands.
Fine in the north and east of England, as well as at many of the Swedish stations.
Rain fell yesterday in nearly all parts of Western Europe, the largest amounts being 1·5 in. at Lizard, 0·8 in. at York and Oxford, and 0·7 in. at Loughborough. Lightning was seen last night at Prawle Point.

SEA

Exceedingly high off the northeast of Scotland, and rough or rather so on most other parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over England is gradually filling up and is at the same time moving slowly eastwards. The weather seems likely to moderate but strong winds or gales from the E. are still probable on our north and east coasts.

FORECASTS

For the 24 hours ending at NOON on 20th OCTOBER 1898

DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH; ↑ 1 SCOTLAND EAST	E. gales, moderating gradually; squally, showery.
↑ 2 ENGLAND N.E.; ↑ 3 ENGLAND EAST	SE. winds, strong to a gale in places; fair generally, but local showers.
4 MIDLAND COUNTIES; 5 ENGLAND SOUTH	S. to SE. winds, strong in places; showery at first, some improvement later.
6 SCOTLAND WEST; ↑ 7 ENGLAND N.W.	NE. to E. winds, strong in places; cloudy, some showers.
8 ENGLAND S.W.	W. to SW. winds, strong; squally, showery.
↑ 9 IRELAND NORTH; 10 IRELAND SOUTH	NE. winds, strong in places; changeable, some showers.
WARNINGS	At 10·30 am today to district 0 "Keep up North Cone". The signals are still flying in districts 1 to 3, 7, and 9.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.88	42	35	ESE	6	o	4
Sumburgh Head	29.79	38	37	E	4	cp	6
Stornoway	29.59	48	42	ESE	7	c	8
Aberdeen	29.56	44	41	E	8	ogqp	9
Shields	29.26	49	48	E	6	gd	7
Ardrossan	29.27	48	46	NE	8	cm	3
Malin Head ...	29.19	49	47	ESE	9	r	7
Belmullet	29.05	52	51	E	3	r	*
Holyhead	29.06	54	52	ENE	5	cp	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.25	54	49	WNW	6	bcq	6
Scilly	29.71	56	53	NW	7	cp	4
Jersey	29.18	58	50	WSW	6	bc	5
Hurst Castle ...	29.06	56	54	WSW	5	op	4
Dungeness ...	29.08	59	55	SW	7	c	6
North Foreland	29.09	60	54	S	5	bc	4
London (Westminster)	29.02	58	54	WSW	3	c	*
Yarmouth ...	29.04	58	56	SSE	4	c	5
Rochefort ...	29.39	61	55	NW	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received

General Remarks on the Weather over Europe for the 24 hours ending 8am October 18th 1898.

Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in the southwest, west, and north of England, and also in North Germany and Central France, and with showers in the east of Scotland. Snow falling in several parts of Sweden and Finland as well as at Swinemunde: fog reported in Austria and also at some of the Mediterranean stations. Heavy rain falling later in many parts of Western Europe,– as much as 1·2 in: at Shields, 1·1 in: at Donaghadee, and 1·0 in: at at Leith and Hurst Castle. Thunder and lightning occurring at Lyons at night, and lightning seen on the east coasts of England, as well as at Prawle Point and Pianity.

Temperature rises over England, but changed rather irregularly elsewhere. Morning readings highest 77° at La Calle, 75° at Malta and 74° at Algiers; above 65° at several of the Italian and Mediterranean stations. Lowest 17° at Archangel, 20° at Uleaborg, and 23° at Haparanda and Hangö; below the freezing point over Sweden and Russia generally, and below 40° over Central Scotland. Remaining below 50° all day at the Scotch stations, and rising to between 60° and 65° over the central and southern parts of England and to 68° at Cambridge. Exceeding 65° in the south of France and reaching 78° at Perpignan.

Wind strong to a gale from the E^ly over Denmark, North Germany, the south of Norway, the North Sea and the northern parts of Gt Britain, and from the NE^ly in the west of our Islands. Moderate to fresh from the SW^ly over Southern Europe, strong from the S^ly or SE^ly over the English Channel and the north of France, with a gale at Lorient. Light to moderate from the NE^ly in Sweden and Russia; calm or variable in Austria. Subsequently backing to the NW^ly at the mouth of the Channel; no important change occurring elsewhere.

Barometer highest 30·2 in: in an anticyclone over the north of Scandinavia; 29·8 in: and upwards over the extreme southeastern parts of Europe. Lowest 28·7 in: and less, in a deep depression with its centre at the mouth of the English Channel; gradients steep over northwestern Europe generally. Depression eventually moving very slowly northeastward, and barometer rising on our extreme southwest coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 20th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.41	28	W	2	b	30.38	+.06	31	30	+3	SW	2	b	*	b	*	39	12	-
	Hernösand ...	30.56	15	N	0	b	30.54	+.10	13	12	+4	N	0	b	*	b	*	36	5	-
	Stockholm ...	30.53	36	E	2	0	30.52	+.15	37	34	+7	ESE	2	0	*	0	*	37	27	-
	Wisby	30.48	36	SE	4	0	30.47	+.16	35	31	0	SE	6	b	*	0	*	36	28	-
	Karlstad ...	30.46	35	NE	4	0	30.44	+.09	35	32	+8	NE	4	0	*	0	*	*	*	-
	Bodö	30.29	31	E	2	b	30.23	-.11	31	28	-3	E	2	bc	1	b	*	37	28	-
	Christiansund ...	30.23	36	ESE	3	c	30.23	+.02	38	35	+5	S	1	bc	2	c	*	39	32	-
	Skudesnaes ...	30.15	41	E	8	c	30.18	+.10	40	35	+4	E	6	bc	4	o,c	*	44	34	*
	Færder (Christiania Fjord)	30.40	39	E	5	0	30.37	+.10	38	33	+5	ESE	5	0	3	0	*	39	33	-
	Skagen (The Scaw)	30.32	38	SE	6	0	30.29	+.14	39	35	+2	SE	6	0	1	0	*	41	37	-
	Fanö	30.01	40	ESE	8	0	30.04	+.22	40	38	-1	ESE	4	0	*	0	*	41	39	-
BRITISH ISLANDS.	Sumburgh Head	29.79	44	ESE	7	r	29.84	-.06	45	45	+4	SE	7	ru	8	r	*	47	41	0.45
	Stornoway ...	29.63	47	E	4	0	29.56	-.12	53	51	+10	SE	5	0	5	c, o	3.2	53	42	0.05
	Wick	29.72	52	SE	8	0	29.72	-.01	50	49	+7	SE	8	0	9	or	*	52	40	0.40
	Nairn	29.65	48	E	1	r	29.67	+.03	50	48	+7	ESE	2	c	2	r	*	51	40	0.10
	Aberdeen ...	29.70	50	SE	8	ogq	29.73	+.21	48	47	-1	SE	5	ogq	7	ogqp	0.0	52	48	0.04
	Leith	29.57	48	ENE	3	0	29.66	+.24	51	49	+2	ESE	3	0	*	0	*	58	47	-
	Shields	29.57	53	ESE	5	op	29.68	+.30	51	51	-1	ESE	4	op	5	o,r	*	57	49	0.29
	Spurn Head ...	29.54	54	SSE	4	r	29.70	+.37	53	52	-2	SSE	3	b	4	c,r	*	56	51	0.30
	York	29.51	53	SE	1	r	29.69	+.36	50	49	-1	SE	1	f	*	cp	1.1	56	50	0.10
	Loughborough ...	29.51	52	S	1	r	29.72	+.49	49	47	0	SSW	1	cmw	*	r.c, p.o	*	54	48	0.23
	Ardrossan ...	29.53	54	NE	3	of	29.59	+.17	52	52	+7	ESE	1	of	1	b.of	*	55	44	0.01
	Malin Head ...	29.55	50	NNW	3	cg	29.53	+.07	47	45	-1	SSW	4	0	1	b,cg	*	50	44	-
	Belmullet ...	29.63	51	NE	1	c	29.51	-.04	47	45	-3	SE	2	0	*	bc.c	*	53	41	0.17
	Donaghadee ...	29.48	55	NNE	6	c	29.61	+.23	48	47	-2	SW	3	0	2	c	*	55	47	-
	Liverpool (Bidston)	29.47	51	ENE	1	r	29.68	+.43	49	47	-1	S	1	c	?	rf	*	52	47	0.09
	Holyhead ...	29.46	54	NW	3	cpu	29.64	+.36	52	50	-1	S	3	0	2	pa,cp	*	54	49	0.01
	Parsonstown ...	29.59	38	N	0	0	29.56	+.12	48	46	+2	N	0	or	*	0	0.0	50	42	0.04
	Valencia ...	29.61	51	ENE	2	c	29.48	+.05	57	56	+7	SSE	4	og	4	bc.c	7.3	57	46	0.11
	Roche's Point ..	29.60	52	N	3	c	29.56	+.11	55	55	+5	SSE	5	r	4	c	*	55	44	0.20
	Pembroke (St. Ann's Hd.)	29.56	54	NW	4	0	29.66	+.36	56	54	+5	SSW	4	0	4	0	0.0	56	50	0.03
	Scilly	29.58	56	NNW	4	cp	29.64	+.22	57	56	+3	S	4	m	3	cp	3.5	58	52	0.07
	Prawle Point ...	29.59	54	NSW	3	c	29.74	+.36	54	52	+1	NSW	3	c	3	cp,r	*	56	49	0.25
	Jersey (St. Aubin's)	29.64	56	NSW	4	bc	29.81	+.36	57	53	+1	SW	4	bcm	3	p.bc	*	60	54	0.05
	Hurst Castle ...	29.55	56	W	2	0	29.75	+.40	55	54	0	SSW	2	opm	2	c,o	*	58	49	0.03
	Dungeness ...	29.58	56	SSW	5	bc	29.76	+.34	54	51	-3	W	3	bc	2	bc	*	60	48	0.07
	North Foreland	29.61	56	SSE	3	c	29.77	+.33	51	49	-4	SW	2	bc	1	bc.c	*	60	49	0.02
	London (Brixton) ...	29.56	54	SSW	4	op	29.76	+.39	49	48	-3	SW	1	bc	*	or.c,bw	0.1	56	46	0.04
	Oxford	29.60	51	SW	2	0	29.74	+.47	50	49	-2	SE	1	m	*	or.o	*	53	48	0.23
	Cambridge ...	29.58	53	SSE	1	r	29.76	+.41	48	48	-3	SW	1	o	*	or	0.0	57	45	0.13
	Yarmouth ...	29.58	55	SSE	5	bc	29.72	+.28	52	51	-3	ESE	2	bcf	4	b.bc	*	57	50	0.05
GERMANY & HOLLAND.	Cuxhaven ...	29.83	38	ESE	5	0	29.95	+.24	33	32	-4	E	4	0	*	0	*	39	32	0.04
	Berlin	29.93	34	E	5	0	29.90	+.10	32	31	-3	E	4	r	*	0	*	37	30	0.16
	Wiesbaden ...	*	*	*	*	*	29.89	+.28	44	42	-7	W	1	0	*	*	*	57	43	-
	Munich	29.62	49	W	2	r	29.79	+.21	41	41	-9	W	4	r	*	r	*	54	41	0.63
	The Helder ...	29.72	41	E	2	r	29.84		39	39		ESE	2	m	1	r	*	46	39	0.04
BELGIUM.	Brussels ...	*	*	*	*	*	29.84	+.28	47	45	-1	S	1	b	*	0	*	60	39	-
	Cape Gris Nez ..	?	57	NSW	5	c	?	?	56	55	+8	NSW	3	0	3	c	*	57	46	0.04
	Paris ...	29.73	49	SW	2	b	29.90	+.32	38	38	-5	S	2	b	*	b	*	60	37	-
	Brest ...	29.70	57	W	3	bc	29.76	+.26	56	55	+2	SSW	3	0	3	bc	*	59	50	-
	Lorient ...	29.74	57	NW	4	c	29.84	+.28	57	54	+5	SSW	4	c	3	c	*	61	52	-
FRANCE &	Rochefort ...	29.79	59	NNW	4	0	29.91	+.27	53	52	0	NSW	2	bc	*	bc.o	*	63	50	-
	Belfort ...	29.63	51	N	0	0	29.86	+.32	45	44	-3	NSW	3	m	*	0	*	60	45	0.08
	Lyons ...	29.69	50	NW	3	0	29.92	+.34	?48	44	+1	NNW	2	m	*	0	*	51	46	0.12
	Nice	29.45	52	ENE	2	c	29.60	+.17	51	48	-2	E	2	bc	3	c	*	59	48	0.39
	Perpignan ...	29.72	55	NW	5	b	29.87	+.24	56	50	+2	NW	4	b	*	b	*	62	53	-
	Biarritz ...	29.81	59	NW	4	r	29.90	+.24	55	51	+2	S	2	c	4	r	*	61	52	1.22
PENINSULA.	Corunna ...																*			
	Lisbon	30.13	63	NNW	3	b	30.18	+.14	62	59	+1	NSW	2	0	*	b	*	66	61	0.04
	Azores (P. Delgada)	29.87	69	SSW	4	0	29.75	-.20	70	68	0	SSW	5	0	6	0	*	73	68	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

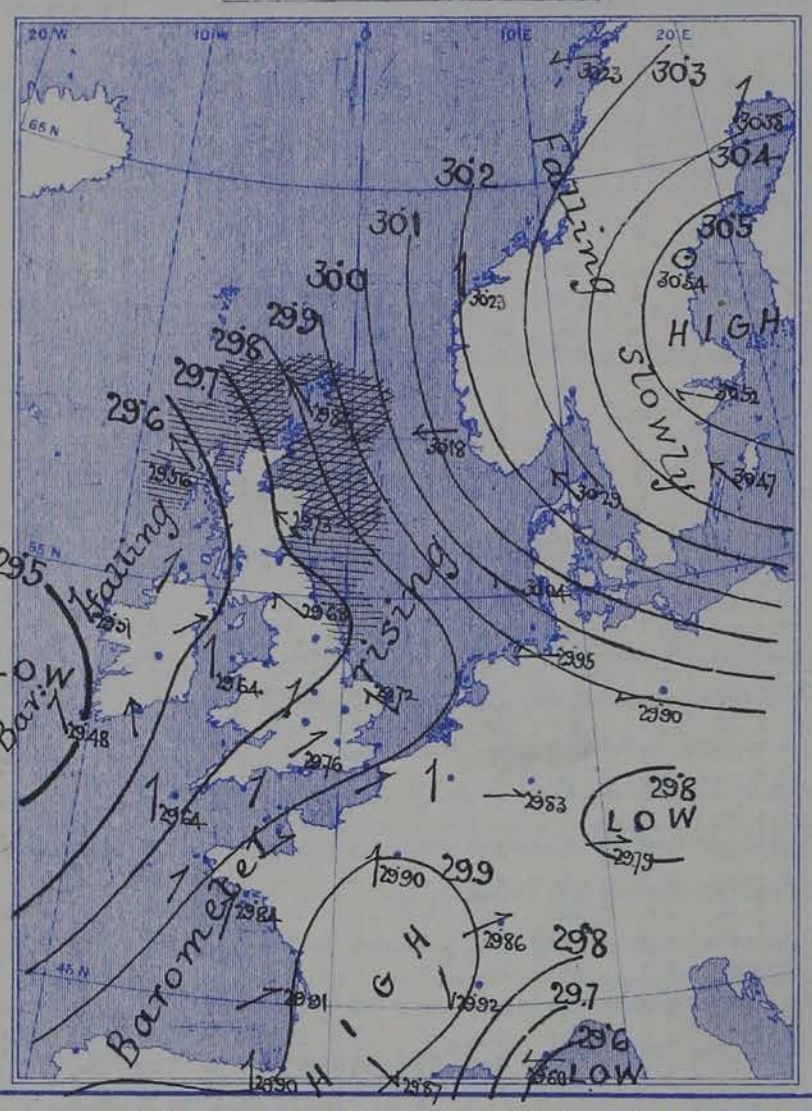
Bright Sunshine yesterday Southport 0.0 hrs.

WEATHER CHARTS

FOR Thursday, 20th October, 1898

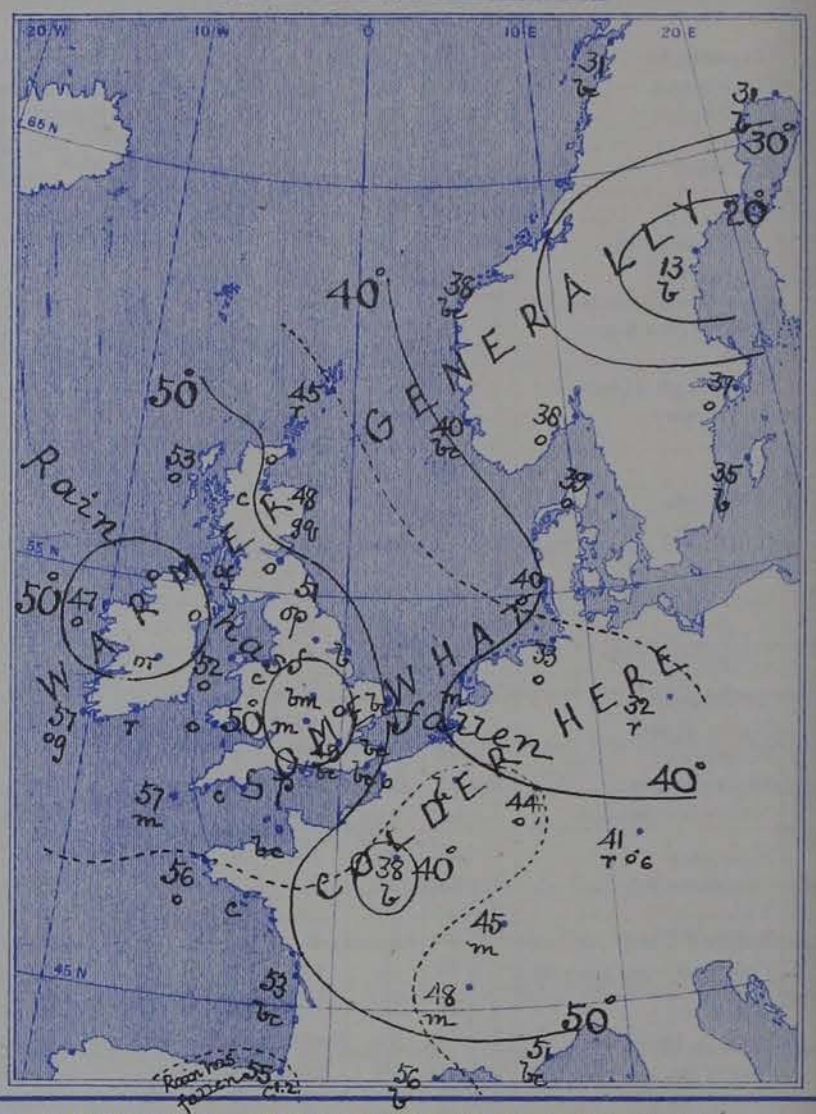
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95*	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65*	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 ins. and upwards over the southern part of the Gulf of Bothnia; 30·1 ins. and upwards, in an anticyclone embracing the whole of Scandinavia and the north of Denmark, as well as in another system over the south of Portugal.
Lowest, 29·5 ins. and less, in a depression lying to the southwestward of Ireland.
Gradients rather steep over Scandinavia, Denmark, and the eastern parts of the North Sea, moderate or slight elsewhere.
Barometer falling again on our extreme west and southwest coasts and also in Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 62° at Lisbon, 57° at Valencia (Ireland), Scilly, Jersey and Lorient, and 56° at Pembroke, Brest, and Perpignan.
Lowest, 13° at Haparanda, 31° at Bodö and Haparanda, 32° at Berlin, and 33° at Cuxhaven; lowest in our Islands 45° at Lerwick and Leeuwarden.
The maxima registered were below 55° on many parts of our western and extreme northern coasts; at some of the English Channel stations, however, the thermometer touched 60°.

WIND

Strong to a gale from the E. or SE. over the north of Scotland, and also over the eastern part of the North Sea, Denmark and the south of Scandinavia.
Moderate from the S. on our western coasts and in the northwest of France; light from the SW. in the south of England. W. or NW. are over the southern parts of France and Germany.

WEATHER

Fine in the east and southeast of England, as well as in France, the Netherlands, and the greater part of Scandinavia.
Cloudy or dull elsewhere, with rain at Valentia and Roch's Point, as well as at Lerwick and some of the German stations.
Rain fell yesterday over nearly the whole of our Islands, the Netherlands, Germany and the east and south of France; the largest amounts being 1·2 ins. at Biarritz, 0·6 in. at Munich, and 0·5 in. at Lerwick.

SEA

Extremely high off the northeast of Scotland, but moderate or slight in most other localities.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression recently noticed over our Islands appears to have entirely dispersed. In the southwest, however, there are indications of the advance of a new disturbance, so that increasing winds from the SE. or S. are again probable on many parts of our western and northern coasts.

FORECASTS

For the 24 hours ending at NOON on 21st OCTOBER, 1898

	DISTRICTS.	FORECASTS.
⊼ 0	SCOTLAND NORTH	SE. gales and strong winds; dull, some rain.
1	SCOTLAND EAST	SE. winds, increasing in force; dull, some rain.
2	ENGLAND N.E.	SE. winds, freshening; fair at first, some rain later.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	SW. to S. winds, freshening; fair at first, some rain later.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S. to SE. winds, freshening; dull some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S. and SE. winds, increasing in force; dull, rainy.
9	IRELAND NORTH	Same as Nos 6 & 7.
⊼ 10	IRELAND SOUTH	SE. winds, increasing in force; dull, rainy.
	WARNINGS	At 10·30 am to district 10 Hoist South Cone. The signals are still flying in district 0.

Note.—The **South Cone**, *point downwards* (⊼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (⊼), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc	F.	WEA.	SEA.
Skudesnaes	30.10	40	35	SSE	6	o	4
Sumburgh Head	29.84	41	41	ESE	7	r	8
Stornoway	29.64	49	46	ESE	4	c	5
Aberdeen	29.62	51	50	SE	9	o gqp	9
Shields	29.49	54	53	ESE	4	o	5
Ardrossan	29.47	55	54	NE	3	bc	2
Malin Head	29.82	50	46	N	3	bc	2
Belmullet	29.61	53	48	NE	3	bc	*
Holyhead	29.38	53	51	NNE	2	opd	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc	F.	WEA.	SEA.
Valencia	29.54	55	50	ENE	3	bc	4
Scilly	29.53	58	55	WNW	5	cp	3
Jersey	29.58	60	54	WSW	5	bc	4
Hurst Castle	29.49	58	56	SW	4	c	3
Dungeness	29.53	59	55	SW	6	bc	5
North Foreland	29.56	57	53	SSE	4	bc	3
London (Westminster)	29.48	56	53	S	3	op	*
Yarmouth	29.54	57	54	SSE	5	b	4
Rochefort	29.71	62	55	NW	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over Europe as a whole, with rain in many parts of England and France, as well as at Lisbon and a thunderstorm at Roro. Rain falling also in the northeast of Scotland and snow at Bodö, Skudesnaes, and Moscow. Fine in the north and east of England, as well as at many of the Swedish stations. Rain occurring later in nearly all parts of our Islands, the Netherlands, Germany and the east and south of France, – heavily at Biarritz.

Temperature changed rather irregularly, but fallen in most places. Morning readings highest 75° at Brindisi and Malta, 71° at Messina and Constantinople, and 70° at Palermo; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest 9° at Hernösand, 21° at Riga and Moscow, and 25° at Hangö and Helsingfors; below the freezing point over nearly the whole of Sweden and Russia. Daily maxima in our Islands below 55° at many of the western and northern stations, but thermometer touching 60° at some of the English Channel stations; exceeding 60° in the west and south of France, and reaching 66° at Lisbon.

Wind strong to a gale from the E^ly or SE^ly over North Germany, Denmark, the North Sea, the south of Norway and the north of Scotland and from the NE^ly on some parts of our northwest coasts; strong from the W^ly or SW^ly in the English Channel, and from the S^ly on our southeast coasts. ~~strong from the W^ly or SW^ly in the English Channel, and from the S^ly on our southeast coasts~~. Light to fresh from the W^ly or NW^ly over France and Spain; variable in Italy and Austria; light from the N^ly or NE^ly over the greater part of Russia and Sweden. Wind extending later on most parts of our coasts, but SE^ly gale continuing in the north of Scotland.

Barometer highest 30.4 in. and upwards over Central Sweden; 30.1 in. and upwards in an anticyclone embracing the whole of Scandinavia, Finland, and the Baltic Provinces; and also in another system over Morocco and the extreme south of Spain. Lowest 29.3 in. and less, in a depression with its central area over Wales and Central England; 29.5 in. and less in two other disturbances lying respectively over the Gulf of Genoa and the northern part of the Adriatic. Depression over our Islands moving northwestwards later, and rapidly filling up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday, 21st October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·24	31	SW	4	b	30·17	-·21	36	32	+4	Z	0	0	*	b	*	36	25	-
	Hernösand ...	30·25	36	SSW	2	0	30·17	-·37	33	31	+20	SSW	2	0	*	0	*	36	7	-
	Stockholm ...	30·31	39	NE	4	0	30·06	-·46	37	36	0	ENE	4	r	*	0	*	39	34	-
	Wisby	30·23	34	ESE	6	S	29·99	-·48	32	32	-3	ESE	4	8	*	S	*	36	32	0·47
	Karlstad ...	30·27	35	Z	0	b	30·08	-·36	36	33	+1	NE	2	0	*	b	*	*	*	-
	Bodö	30·15	36	E	2	0	29·93	-·30	36	33	+5	E	2	c	1	0	*	36	28	-
	Christiansund ...	30·04	36	SE	2	b	29·90	-·33	37	34	-1	SE	2	b	2	b	*	43	34	-
	Skudesnaes ...	30·08	41	ESE	8	b	29·91	-·27	42	38	+2	SE	6	0	4	b	*	44	39	*
	Færder (Christiania Fjord)	30·22	39	ENE	4	0	30·00	-·31	37	35	-1	NE	4	0	3	0	*	39	36	-
	Skagen (The Scaw)	30·15	40	ESE	3	c	30·01	-·28	40	38	+1	ESE	2	0	0	c	*	43	39	-
	Fanö	30·01	41	ESE	4	0	29·95	-·09	39	37	-1	ESE	2	0	*	0	*	43	39	-
BRITISH ISLANDS.	Sumburgh Head	29·70	47	SE	7	0	29·49	-·35	50	50	+5	SE	6	r	8	p,o	*	50	45	0·16
	Stornoway ...	29·45	53	ESE	4	ou	29·36	-·20	54	52	+1	SSW	3	c	3	b,ou	0·0	54	48	0·20
	Wick	29·58	50	S	8	0	29·46	-·26	53	52	+3	S	3	c	8	0	*	53	47	0·05
	Nairn	29·55	52	E	1	c	29·45	-·22	54	51	+4	SW	1	c	1	c	*	54	49	0·01
	Aberdeen ...	29·63	51	SSE	8	ogq	29·53	-·20	52	51	+4	S	2	ogm	6	grq,g	0·0	53	48	0·08
	Leith	29·60	51	SE	1	0	29·50	-·16	52	51	+1	Z	0	m	*	0	*	55	49	-
	Shields	29·68	53	SE	3	0	29·55	-·13	52	52	+1	S	2	r	4	f,o,r	*	54	50	0·03
	Spurn Head ...	29·73	53	SSE	3	0	29·58	-·12	54	54	+1	SSW	2	r	4	c,r	*	55	52	0·28
	York	29·71	54	SSE	1	0	29·57	-·12	53	52	+3	SSW	1	f	*	0	0·0	57	49	0·03
	Loughborough ...	29·74	53	SE	1	r	29·61	-·11	53	52	+4	SW	1	cm	*	cm,omp	*	56	49	0·28
	Ardrossan ...	29·54	53	ESE	3	om	29·50	-·09	54	54	+2	SSE	2	0	2	om	*	54	51	0·01
	Malin Head ...	29·42	52	SSW	4	0	29·41	-·12	53	52	+6	S	4	cmp	2	bc,o	*	54	45	0·01
	Belmullet ...	29·48	50	SSW	2	0	29·49	-·02	55	55	+8	WSW	2	bc	*	o,b	*	56	47	0·15
	Donaghadee ...	29·54	53	SSW	5	r	29·52	-·09	54	54	+6	WSW	4	bc	2	r	*	55	46	0·11
	Liverpool (Bidston)	29·65	53	SE	2	0	29·58	-·10	54	52	+5	SSE	1	bc	2	op	*	55	49	0·06
	Holyhead ...	29·58	54	S	2	ggam	29·54	-·10	55	54	+3	SE	1	cm	1	gmpd	*	57	50	0·07
	Parsonstown ...	29·52	55	Z	0	0	29·56	·00	55	55	+7	Z	0	bc	*	o,d	0·0	57	46	0·06
	Valencia ...	29·51	58	S	2	om	29·59	+·11	56	55	-1	SW	2	cm	4	c,om	0·4	61	54	0·21
	Roche's Point ..	29·56	57	WSW	2	om	29·61	+·05	56	54	+1	WNW	3	b	3	m,o,p	*	60	54	0·25
	Pembroke (St. Ann's Hd.)	29·59	56	NW	4	r	29·57	-·09	58	55	+2	WSW	3	f	4	or	0·0	58	52	0·36
	Scilly	29·66	58	SW	3	f	29·64	·00	59	59	+2	WSW	4	f	3	m,f	0·0	62	55	0·24
	Prawle Point ...	29·68	57	SSW	4	f	29·66	-·08	59	59	+5	SW	6	rm	5	or,f	*	59	52	0·54
	Jersey (St. Aubin's)	29·76	58	SSE	3	rm	29·75	-·06	62	62	+5	SE	2	pm	2	o,gr	*	62	55	0·34
	Hurst Castle ...	29·74	57	SSW	5	rm	29·65	-·10	60	60	+5	WSW	5	om	3	o,rm	*	60	54	0·46
	Dungeness ...	29·81	57	SW	4	cp	29·63	-·13	60	60	+6	SW	6	r	5	c,op	*	61	53	0·17
	North Foreland	29·84	55	S	2	c	29·65	-·12	57	57	+6	S	4	r	3	c	*	60	51	0·25
	London (Brixton) ...	29·79	55	SSW	2	or	29·63	-·13	58	58	+9	SW	1	or	*	c,or	0·5	59	49	0·31
	Oxford	29·71	53	SSE	2	0	29·61	-·13	54	54	+4	SSE	1	or	*	or	*	57	49	0·30
	Cambridge ...	29·78	54	SSE	1	or	29·63	-·13	54	54	+6	SSW	1	gam	*	or	0·7	59	47	0·28
	Yarmouth ...	29·78	54	SSE	2	bc	29·64	-·08	54	52	+2	SW	3	od	4	bc	*	56	50	0·25
GERMANY & HOLLAND.	Cuxhaven ...	29·97	36	SE	1	0	29·93	-·02	30	29	-3	S	2	0	*	0	*	36	28	-
	Berlin	29·95	33	SW	2	0	30·02	+·12	33	32	+1	W	3	c	*	0	*	34	30	0·08
	Wiesbaden ...	*	*	*	*	*	30·01	+·18	44	43	0	Z	0	0	*	*	*	48	41	-
	Munich	30·02	43	W	2	bc	30·09	+·30	40	40	-1	S	2	b	*	bc	*	46	36	0·35
	The Helder ...																*			
BELGIUM.	Brussels ...	*	*	*	*	*	29·83	-·01	50	49	+3	S	4	r	*	0	*	60	46	0·16
	Cape Gris Nez ...	?	57	WSW	4	0	?	?	56	55	0	SSW	5	r	5	0	*	59	52	-
	Paris	29·95	50	S	2	c	29·88	-·02	52	51	+14	S	3	r	*	c	*	62	38	0·39
	Brest	29·76	59	SW	2	f	29·75	-·01	60	60	+4	SSW	2	f	4	f	*	60	54	0·08
	Lorient	29·82	60	WSW	5	f	29·84	·00	59	59	+2	W	5	r	5	f	*	61	52	0·12
FRANCE &	Rochefort ...	29·96	58	SSW	4	0	30·02	+·11	63	61	+10	W	4	0	*	0	*	63	50	0·16
	Belfort	29·99	48	SSE	2	b	30·03	+·17	41	40	-4	Z	0	m	*	b	*	58	36	-
	Lyons	30·02	48	NW	1	b	30·08	+·16	46	45	-2	SW	1	0	*	b	*	58	43	-
	Nice	29·76	59	Z	0	b	29·94	+·34	55	49	+4	E	3	bc	2	b	*	68	51	-
	Perpignan ...	29·95	58	NW	2	c	30·05	+·18	65	61	+9	W	1	0	*	c	*	65	52	-
	Biarritz ...	29·95	61	S	3	r	30·03	+·13	63	63	+8	WSW	3	f	2	r	*	61	55	0·35
PENINSULA.	Corunna ...																*			
	Lisbon	30·21	64	WNW	1	0	30·19	+·01	62	57	0	ESE	2	0	*	0	*	66	61	-
	Azores (P. Delgada)	29·64	68	S	4	0	29·62	-·13	69	65	-1	NE	5	bc	6	0	*	73	63	0·47

For Explanation of Columns, see bottom of last page.

† *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

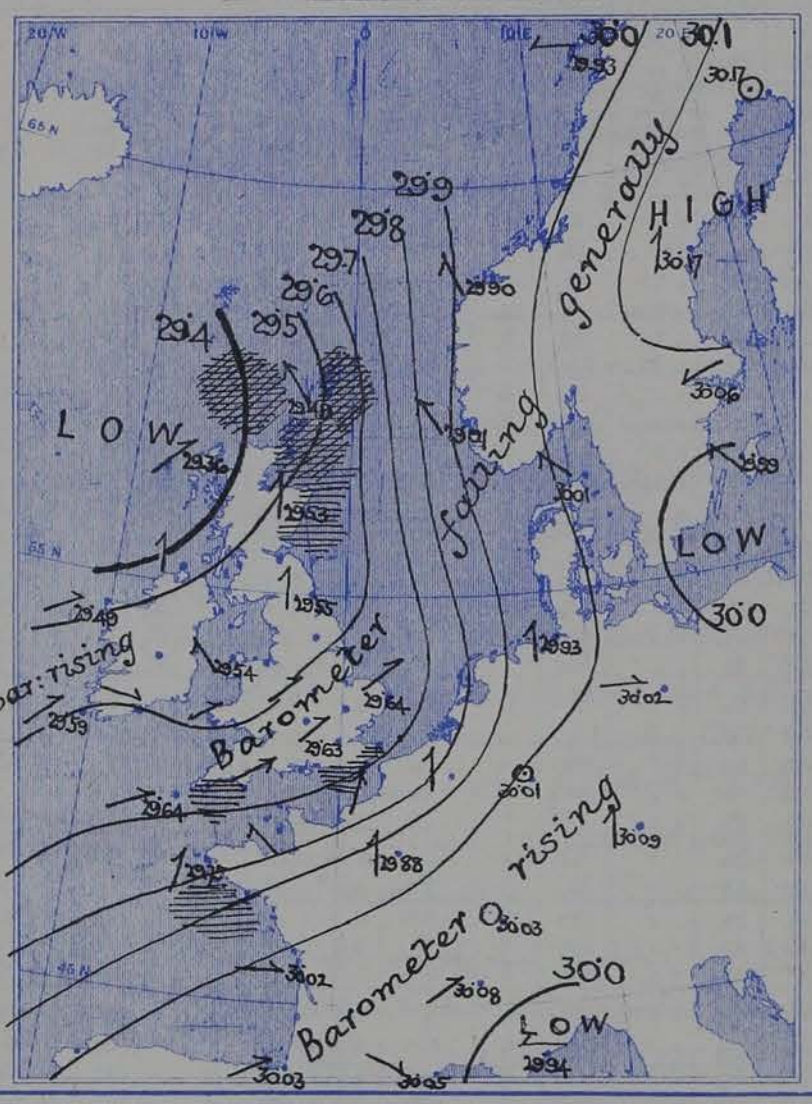
Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Friday, 21st October, 1898

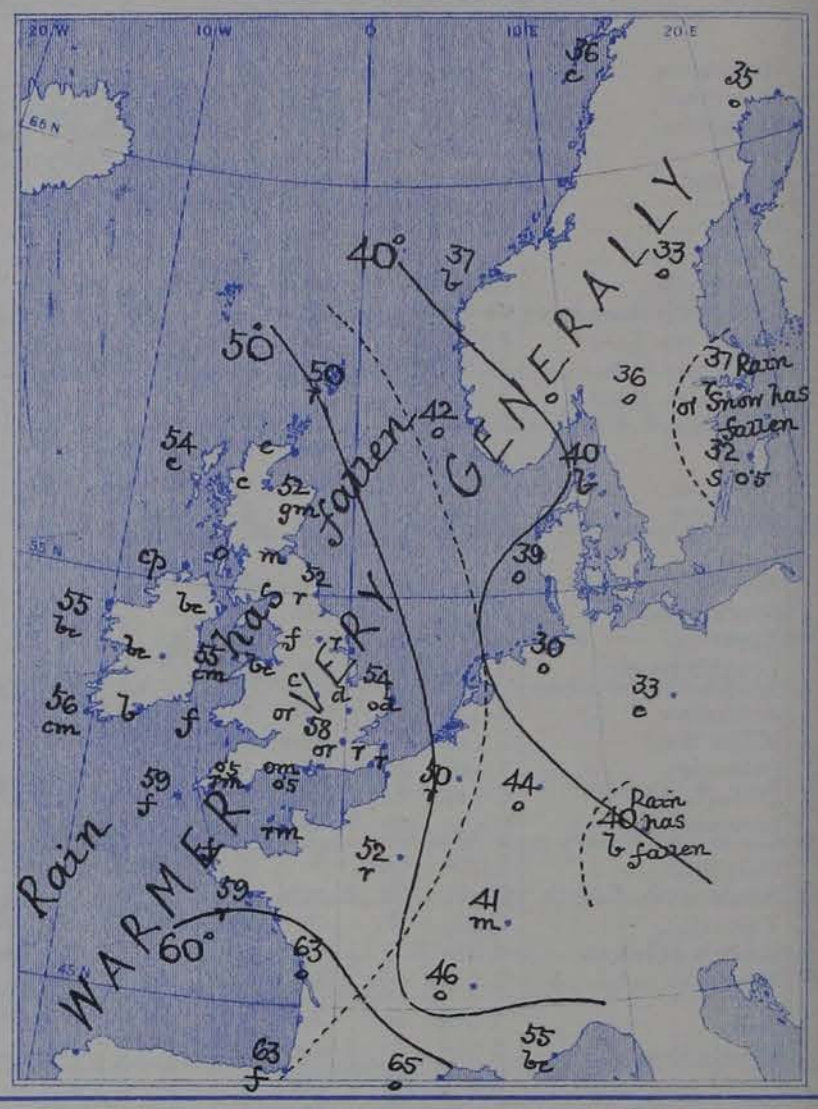
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95 Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–		5·18		–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58		–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards in an anticyclone lying over the Gulf of Bothnia; 30.0 ins. and upwards over the central and southern parts of France.
Lowest 29.4 ins. and less in a depression lying off the NW. of Scotland.
Gradients rather steep over the North Sea, the Netherlands and the N. of France, but slight elsewhere.
Barometer rising in France, Germany and the S. of our Islands, but falling elsewhere, - most in Scandinavia.

TEMPERATURE

Highest 65° at Perpignan, 63° at Rochefort and Biarritz, 62° at Jersey, and 60° at Hurst Castle, Dungeness and Brest.
Lowest 30° at Cuxhaven, 32° at Wisby, 33° at Hernösand and Berlin, 35° at Haparanda, and 36° at Bodö in Lofoden.
The maxima registered yesterday were below 55° at several of our Nn. stations, but a little above 60° on some parts of our S. and SW. coasts.

WIND

SWly. or Wly. over Ireland, the south of England and the west of France and strong in force at several of the Channel stations.
Light from the Sly. over the Netherlands and the northern parts of Gt. Britain; SEly. on the eastern shores of the North Sea; Ely. or NEly. in the south of Sweden.

WEATHER

Cloudy or dull over Wn. Europe as a whole, with rain in the S. and E. of England, the Netherlands and the north of France, and also at Swinburgh Ht. and Stockholm; snow was falling at Wisby.
Foggy at the mouths of the English and Bristol Channels.
Fine at most of the Irish stations and also in the W. of Norway and the extreme S. of France.
Rain fell yesterday in nearly all parts of Wn. Europe, the largest amount being 0.5 in at Prawle Pt. and Hurst Castle. A solar halo was seen at Oxford in the morning.

SEA

Still very high off the NE. of Scotland and rather rough in the English Channel and at Lorient, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was advancing yesterday towards our Wn. coasts proves to have been shallow, and has since moved Nwds. Shallow secondary disturbances have, however, been developed over England, and for the present the weather seems likely to continue in a very unsettled state, with occasional rain in most districts.

FORECASTS

For the 24 hours ending at NOON on 22ND OCTOBER 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Sly. winds, moderate or fresh, fair at first, some rain later.
2 ENGLAND N.E.	Sly. and SEly. winds, light, unsettled, rain at times.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SWly. winds, moderate or fresh, unsettled rain at times.
6 SCOTLAND WEST 7 ENGLAND N.W.	Varying Sly. breezes, fair at first, some rain later.
8 ENGLAND S.W.	SWly. winds, fresh or strong, unsettled, rain at times, fog on coast.
9 IRELAND NORTH 10 IRELAND SOUTH	SWly. to Sly. winds, fair at first, some rain later.
WARNINGS	At 10.30 am. today to district 10. Lower Cone.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·13	44	38	SE	8	b	4
Sumburgh Head	29·77	45	44	SE	7	pu	8
Stornoway ...	29·51	53	51	ESE	4	o	4
Aberdeen	29·67	50	49	SE	9	ogrq	8
Shields	29·69	53	51	SE	2	of	5
Ardrossan	29·58	54	53	SSE	3	o	3
Malin Head ...	29·44	52	49	SSW	4	bc	2
Belmullet	29·47	55	54	SSW	2	o	*
Holyhead	29·62	56	54	S	3	ogdpm	2
Valencia	29·55	59	57	SW	2	om	4
Scilly	29·62	59	59	SW	4	m	2
Jersey	29·82	59	56	S	4	o	3
Hurst Castle ...	29·78	59	56	SW	3	o	2
Dungeness ...	29·81	58	56	W	2	c	1
North Foreland	29·82	59	53	SW	1	c	1
London (Westminster)	29·79	58	54	SW	1	om	*
Yarmouth ...	29·77	55	52	SSE	2	bc	2
Rochefort ...	29·95	62	58	SW	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine in the E. and SE. of England, the Netherlands and France, and also over the greater part of Russia and Scandinavia. Cloudy or dull elsewhere, with rain in the S. of Ireland, as well as in the Shetland and many parts of Germany and Austria. Rain falling later over nearly the whole of Wn. Europe, and heavy snow at Wisby. Fog setting in on our own SW. coasts.

Temperature risen in Ireland, Scotland and Scandinavia, but fallen in most other countries. Morning readings highest 68° at Nemours, 67° at Algiers, 66° at Oran, and 65° at Malta; above 60° at several of the Mediterranean and Spanish coast stations. Lowest 13° at Hernösand, 14° at Moscow, and 22° at Helsingfors and Riga; below the freezing point over Russia and the N. of Scandinavia generally. Daily maxima below 55° at several of our own Nn. stations, but a little above 60° on our extreme Sn. coasts, as well as in the Nn. parts of France; thermometer exceeding 65° over the Spanish peninsula and the S. of France.

Wind moderate from the Sd. on the west coasts of our Islands and France, and light from the SWd. in the south of England; strong to a gale from the Ed. over Denmark, N. Germany and the S. of Norway, and from the SEd. in the north of Scotland. Light and variable over Russia and the northern parts of Scandinavia. Calm in Austria, and variable in Italy, but NWd. in the extreme south of France. Subsequently veering to the SWd. on our own western coasts; No important change occurring elsewhere.

Barometer highest 30.6 ins. and upwards over NWn. Russia; 30.1 ins. and upwards in an anticyclone embracing the whole of Russia and Scandinavia, and also in another system over the Sn. parts of the Spanish Peninsula. Lowest 29.5 ins. and less in a shallow depression off the W. of Ireland; 29.6 ins. and less in another disturbance over Corsica and the Wn. parts of Italy. Depression off our Wn. coasts subsequently moving Nwds.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 22nd October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	30·06	35	S	6	0	30·01	-·16	35	33	0	SW	3	c	*	0	*	37	23	–
	Hernösand ...	30·07	35	SW	1	0	30·03	-·14	20	18	-13	↙	0	b	*	0	*	36	?	–
	Stockholm ...	29·96	38	ENE	2	0	30·08	+·02	34	33	-3	↙	0	r	*	0	*	?	30	–
	Wisby	29·95	36	ESE	4	c	30·09	+·10	39	36	+7	N	6	0	*	c	*	39	27	0·08
	Karlstad ...	30·05	35	N	2	0	30·10	+·02	30	29	-6	N	2	f	*	0	*	*	*	–
	Bodö	29·84	34	E	4	0	29·78	-·15	35	32	-1	E	4	0	1	0	*	37	30	–
	Christiansund ...	29·83	43	SE	1	c	29·74	-·16	45	41	+8	S	3	bc	2	c	*	45	37	–
	Skudesnaes ...	29·93	45	SE	6	0	29·85	-·06	46	43	+4	SE	6	0	5	0	*	46	41	*
	Færder (Christiania Fjord)	30·04	39	NNE	2	0	30·06	·00	43	41	+6	S	4	0	2	0	*	43	36	–
	Skagen (The Scaw)	30·03	41	ESE	1	bc	30·09	+·08	41	39	+1	S	1	bc	0	bc	*	43	37	–
	Fanö	29·97	41	SE	4	0	30·03	+·08	42	41	+3	SE	4	f	*	0	*	43	39	–
	Sumburgh Head	29·54	51	SSE	4	0	29·25	-·24	52	52	+2	SSE	6	ou	8	r, o	*	53	49	0·21
	Stornoway ...	29·48	55	SW	3	0	28·99	-·37	58	55	+4	SW	8	o	9	c, o	1·4	58	50	0·70
	Wick	29·53	56	S	4	c	29·14	-·32	56	55	+3	SSW	6	cu	6	c	*	57	52	0·05
	Nairn	29·57	54	W	1	bc	29·14	-·31	63	58	+9	SW	2	bc	1	bc	*	63	50	0·01
	Aberdeen ...	29·62	53	S	1	cm	29·32	-·21	57	55	+5	S	9	ogq	5	bc cm p	1·2	57	51	0·02
BRITISH ISLANDS.	Leith	29·63	54	S	1	0	29·36	-·14	62	50	+10	SSW	4	c	*	0	*	63	51	–
	Shields	29·71	56	SW	2	0	29·55	·00	58	56	+6	SSW	4	0	3	c, o	*	61	51	–
	Spurn Head ...	29·74	55	SW	3	b	29·73	+·15	59	58	+5	SSE	4	cw	4	c, b	*	62	53	–
	York	29·71	58	S	1	f	29·63	+·06	59	57	+6	S	2	0	*	c, o	1·5	62	52	–
	Loughborough ...	29·77	58	SE	1	c	29·79	+·18	60	57	+7	SW	4	cu	*	om, c, o p	*	61	53	–
	Ardrossan ...	29·63	54	SSW	2	b	29·37	-·13	58	58	+4	S	6	omap	5	o, b	*	58	52	0·22
	Malin Head ...	29·54	56	SSW	4	c	29·27	-·14	55	53	+2	SSW	4	bq	3	b, c	*	60	52	0·03
	Belmullet ...	29·55	56	S	3	0	29·37	-·12	56	53	+1	WSW	4	bc	*	bc, o	*	60	53	0·30
	Donaghadee ...	29·64	54	SSW	4	c	29·40	-·12	59	58	+5	SW	6	c	4	c	*	60	53	0·01
	Liverpool (Bidston)	29·74	56	S	1	b	29·63	+·05	59	57	+5	SSE	3	0	3	cm, b	*	61	53	0·02
	Holyhead ...	29·71	57	S	1	of	29·56	+·02	59	59	+4	SSW	7	rq	4	ap, f	*	59	54	0·05
	Parsonstown ...	29·62	58	SE	1	0	29·48	-·08	56	55	+1	SE	1	b	*	c, o	5·3	62	54	0·07
	Valencia ...	29·53	58	SSE	4	oq	29·32	-·07	57	56	+1	SSW	4	bc	5	cm oq	3·6	62	55	0·14
	Roche's Point ..	29·65	58	SSW	4	rm	29·57	-·04	58	57	+2	WSW	4	c	5	c, r m, p	*	61	55	0·40
	Pembroke (St. Ann's Hd.)	29·77	57	WSW	4	0	29·67	+·10	59	59	+1	SW	7	0	5	c, b	2·5	60	57	0·02
	Scilly	29·77	58	S	3	f	29·76	+·12	60	59	+1	S	6	m	4	f	0·6	63	57	0·01
	Prawle Point ...	29·83	57	WSW	4	f	29·88	+·22	59	58	0	SW	7	c	6	m, rf	*	60	56	0·02
	Jersey (St. Aubin's)	29·89	62	W	5	oq	30·02	+·27	61	60	-1	S	3	oq	3	o pd	*	64	59	0·12
	Hurst Castle ...	29·85	59	WSW	3	0	29·94	+·29	61	60	+1	SSW	5	om	3	c, pf, o	*	63	58	0·01
	Dungeness ...	29·80	60	WSW	4	0	29·96	+·33	61	60	+1	SW	4	c	4	o, f	*	61	58	0·1[illegible]
	North Foreland	29·81	60	N	1	0	29·98	+·33	61	59	+4	SSW	4	c	3	0	*	65	57	0·20
	London (Brixton) ...	29·82	63	WSW	1	om	29·92	+·29	62	58	+4	SSW	4	c	*	cq, bc	0·2	65	58	0·01
	Oxford	29·84	58	WSW	3	c	29·87	+·26	60	58	+6	S	3	0	*	o, c, o	*	63	53	–
	Cambridge ...	29·82	59	SW	1	0	29·88	+·25	61	58	+7	SSW	3	0	*	0	0·2	61	53	0·02
	Yarmouth ...	29·77	57	WSW	2	bc	29·86	+·22	60	58	+6	SW	3	b	3	bc	*	60	53	0·02
GERMANY & HOLLAND.	Cuxhaven ...	29·87	37	SE	3	0	30·02	+·09	40	40	+10	ESE	2	0	*	0	*	41	30	–
	Berlin	30·02	36	SE	2	0	30·13	+·11	38	37	+5	E	2	f	*	0	*	38	33	–
	Wiesbaden ...	*	*	*	*	*	30·11	+·10	51	51	+7	↙	0	o	*	*	*	52	44	0·35
	Munich... ..	30·07	47	↙	0	r	30·19	+·10	53	53	+13	W	2	r	*	r	*	54	39	0·24
	The Helder ...	29·80	50	↙	0	f	29·94		54	54		S	2	f	7	f	*	54	46	0·12
BELGIUM.	Brussels ..	*	*	*	*	*	30·07	+·24	59	59	+9	SW	2	r	*	0	*	60	49	0·16
	Cape Gris Nez ...	?	60	W	5	f	?	?	60	59	+4	W	5	0	5	f	*	61	55	0·12
	Paris ...	29·96	62	SW	3	0	30·13	+·25	59	59	+7	SW	2	0	*	c	*	64	52	0·16
	Brest ...	29·94	60	SW	3	f	29·95	+·20	61	58	+1	SW	4	0	6	f	*	61	57	0·04
	Lorient... ...	30·01	62	W	5	f	30·06	+·22	59	59	0	S	4	bc	f	f	*	63	54	0·16
FRANCE &	Rochefort ...	30·10	63	SW	4	0	30·13	+·11	57	56	-6	S	2	b	*	0	*	64	55	–
	Belfort ...	30·04	50	SW	2	r	30·16	+·13	54	?	+13	↙	0	f	*	r	*	66	41	0·67
	Lyons ...	30·16	52	SE	1	0	30·21	+·13	53	53	+7	W	1	0	*	0	*	56	46	0·16
	Nice	29·99	60	↙	0	c	30·06	+·12	58	55	+3	E	1	c	1	c	*	70	54	–
	Perpignan ...	30·12	64	↙	0	b	30·14	+·09	56	54	-9	SW	1	b	*	b	*	74	54	–
	Biarritz ...	30·10	66	ENE	2	b	30·06	+·03	57	54	-6	ESE	2	b	2	b	*	72	54	–
PENINSULA.	Corunna ...																*			
	Lisbon	30·14	65	NE	3	b	30·19	·00	59	59	-3	NNE	3	f	*	b	*	72	57	–
	Azores (P. Delgada)	29·85	64	W	1	b	29·93	+·31	63	60	-6	?	1	bc	3	b	*	70	61	0·08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

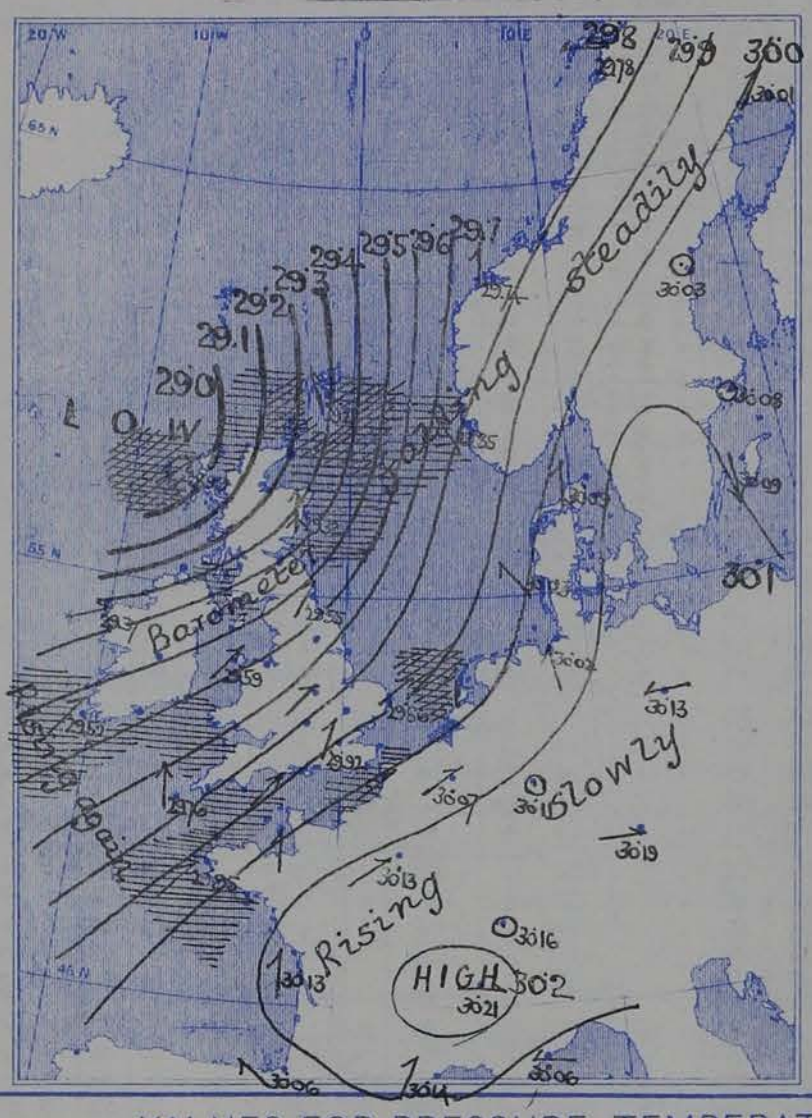
Bright Sunshine yesterday Southport 7·0 hrs;

WEATHER CHARTS

FOR Saturday, 22nd October, 1898

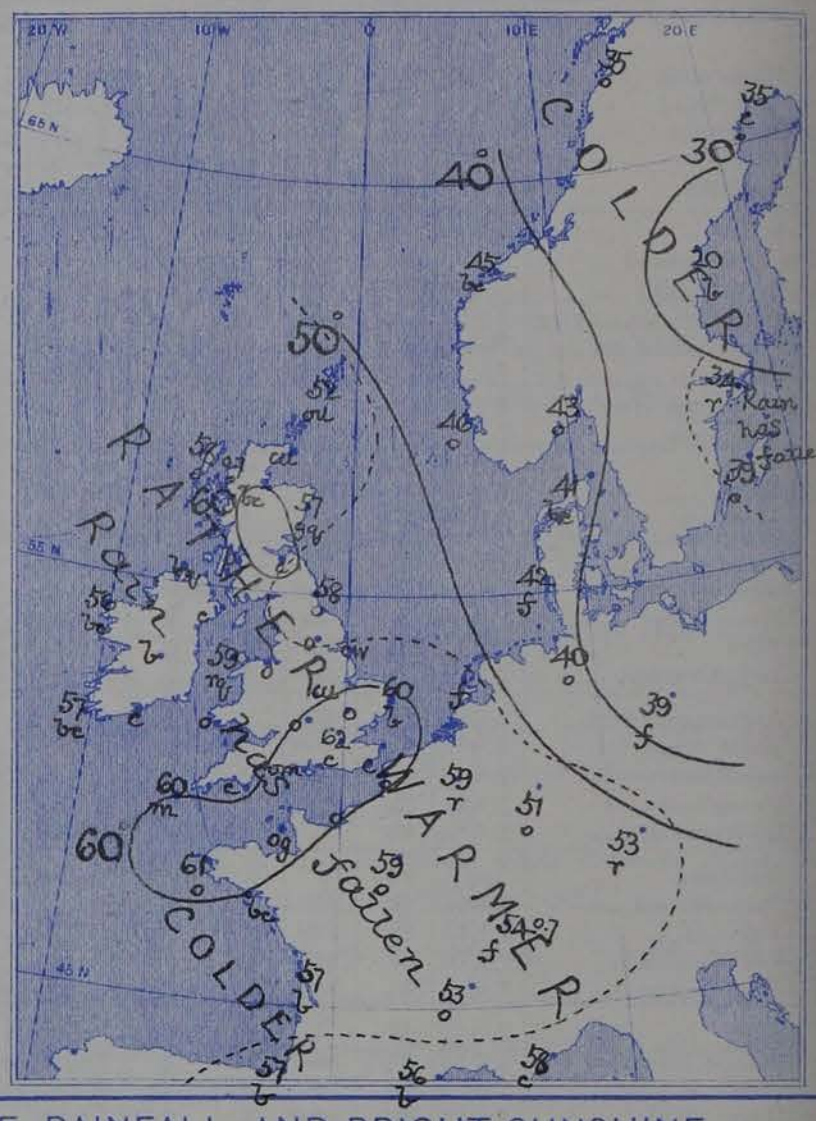
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means 1871–95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. to 30.0 ins. over France and Germany and exceeding 30.0 ins. in a "ridge" extending northwards over the Baltic and Denmark to Sweden.
Lowest. Below 29.0 ins. at Stornoway and apparently still lower to the NW. of the Hebrides.
Gradients slight over France and Germany, very steep over our Islands, especially over the N.rn parts of Gt. Britain.
Barometer falling fast over the N.rn parts of our area, was changing very little in the south, and had begun to rise again in Ireland.

TEMPERATURE

Highest 63° at Nairn, 62° at Leith and in London, and 61° to 60° over the central and SE.rn parts of England generally.
Lowest (1) 20° F. at Hernösand, 30° to 35° at most other stations in Sweden and Lapland. (2) 38° at Berlin, 51° at Wiesbaden, 53° to 54° over the S.rn parts of Germany and the SE. of France.
Maxima were recorded yesterday as high as 65° to 60° in the shade over the greater part of our Islands, 66° at Belfort, 70° to 74° on the SW.rn coasts of France.

WIND

S.ly to SW.ly over our Islands, moderate to fresh over the eastern half of England, strong to a gale on our western and northern coasts, and a strong gale at Aberdeen.
Over France it was light — SW.ly at the northern stations, E.ly in the south. In Ireland the wind was subsiding.

WEATHER

Cloudy, changeable and unsettled over Gt. Britain generally, with occasional rain, fair over France and Germany, with fog in places, clear over the Mediterranean.
Rain has again fallen except over our N.E. districts, in the W. and NW. the fall has been considerable. Bright Sunshine recorded yesterday was very slight over Gt. Britain, but exceeded 5 hrs. at Parsonstown and 3 hrs. at Valencia (Ireland)

SEA

Very high in the far N., rough on our SW. coasts, rather so elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Changeable, mild, showery weather is still probable; the South Cone is still up in the W. and N.

FORECASTS

For the 24 hours ending at NOON on 23RD OCTOBER 1898

DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH ↑ 1 SCOTLAND EAST 2 ENGLAND N.E.	S.ly and SW.ly gales and strong winds, moderating later; squally and showery, then temporarily fair & cooler.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	S.ly winds, strong; very mild, showery, then SW.ly; fairer and cooler, but not settled.
↑ 6 SCOTLAND WEST ↑ 7 ENGLAND N.W. ↑ 8 ENGLAND S.W. ↑ 9 IRELAND NORTH ↑ 10 IRELAND SOUTH	S.ly to SW.ly gales and strong breezes; changeable, rainy, cooler.
WARNINGS	At 6.10 pm. yesterday to districts 0, 1 and 6 to 10. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.90	46	41	SE	6	o	4
Sumburgh Head	29.52	51	50	SE	5	r	8
Stornoway	29.43	56	55	SW	3	o	3
Aberdeen	29.57	55	53	S	2	bc	5
Shields	29.64	60	56	SW	2	c	4
Ardrossan	29.60	55	55	SSW	3	o	2
Malin Head ...	29.52	60	56	SSW	3	b	1
Belmullet	29.57	60	57	SW	1	bc	*
Holyhead ...	29.65	58	57	SW	1	cdpr	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.63	60	58	S	4	cm	5
Scilly	29.76	61	60	SW	3	f	2
Jersey	29.83	64	63	WSW	4	d	3
Hurst Castle ...	29.74	62	61	WSW	3	c	3
Dungeness ...	29.72	61	61	WSW	4	o	4
North Foreland	29.72	64	62	WSW	3	o	2
London (Westminster)	29.72	65	62	W	2	cq	*
Yarmouth ..	29.68	58	56	WNW	2	bc	3
Rochefort ...	30.04	64	62	WSW	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning still fine and bright over the N^rn. half of the Mediterranean, and dull but fair over the greater part of Germany and Russia; very changeable over NW^rn. Europe and the British Islands, with rain in many parts of Gt. Britain and France; wet snow at Wisby; but clear sky in several parts of Ireland. Rain falling again later over the greater part of our Islands, France and W^rn. Germany, but sky clearing a little at times over England.

Temperature rising over the United Kingdom but still more so over France. Morning readings highest 70° at Algiers & 67° at Barcelona; 63° at Rochefort, 62° at Jersey, 60° at Paris, and 60° to 58° over the S^rn. counties of England; lowest 23° at Kharkov and Moscow, 26° at S^t. Petersburg, 27° at Riga, 31° at Kuopio. Rising later to between 60° and 65° over the greater part of the British Islands to 64° at Paris, 66° at Belfort, and 70° to 74° in the extreme S. and SW. of France. Succeeding night also warm over our Islands and their neighbourhood.

Wind (1) light and very variable over the inland parts of Continental Europe, and mainly anticyclonic over Russia on the one hand, and the Spanish Peninsula on the other. (2) variable in direction, but mainly cyclonic over the British Islands and NW^rn. Europe — light to strong in force. Backing to the S^rn. later over the W^rn. parts of our Islands, and becoming strong to a gale in force in many places.

Barometer highest (1) 30.6 ins. and more to 30.0 ins. in a large anticyclone over Russia, Finland and Sweden; (2) 30.1 ins. and more over the Iberian Peninsula; (3) exceeding 30.0 ins. in a broad band passing across central Europe, and uniting the above named high pressure systems. Lowest (1) 29.36 ins. at Stornoway, and below 29.7 ins. all over our Islands; (2) below 29.8 ins. over Malta and Sicily. Falling fast later on our extreme W. and NW. coasts, as a new depression approached those regions from the Atlantic.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 23rd October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS Weather.	Hours of bright sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.96	34	S	4	r	29.68	− .33	35	34	0	S	6	r	*	r	*	37	30	0.16
	Hernösand ...	29.91	40	SW	6	o	29.63	− .40	40	39	+ 20	S	6	f	*	o	*	39	18	0.24
	Stockholm ...	30.10	35	L	0	o	29.90	− .18	46	46	+ 12	S	4	r	*	o	*	46	32	—
	Wisby	30.21	38	NNW	4	b	30.03	− .06	47	46	+ 8	SSW	8	o	*	b	*	47	32	—
	Karlstad ...	29.97	40	SW	4	o	29.79	− .31	51	50	+ 21	SW	2	o	*	o	*	*	*	0.16
	Bodö	29.44	44	E	6	b	29.30	− .48	36	?	+ 1	E	6	c	1	b	*	44	32	0.24
	Christiansund ...	29.33	53	SW	2	r	29.43	− .31	50	48	+ 5	W	3	c	4	r	*	53	45	0.20
	Skudesnaes ...	29.50	52	S	8	r	29.74	− .11	52	51	+ 6	SSW	4	o	4	o,r	*	52	45	*
	Færder (Christiania Fjord)	29.88	46	SSE	6	r	29.77	− .29	50	50	+ 7	SW	4	m	4	r	*	50	43	0.39
	Skagen (The Scaw)	29.90	46	SW	6	r	29.89	− .20	50	50	+ 9	WSW	3	m	0	r	*	54	41	0.12
	Fanö	29.97	51	S	4	o	30.00	− .03	51	51	+ 9	SW	4	f	*	o	*	52	42	0.04
BRITISH ISLANDS.	Sumburgh Head	29.22	53	SW	4	c	29.45	+ .20	48	47	− 4	W	5	r	6	c	*	55	46	0.24
	Stornoway ...	29.17	55	WSW	5	cw	29.57	+ .58	47	44	− 11	SW	3	o	3	b.rq, c	3.3	98	42	0.30
	Wick	29.15	55	W	4	b	29.63	+ .49	47	45	− 9	WNW	3	b	3	b	*	62	44	0.05
	Nairn	29.33	55	WSW	3	c	29.66	+ .52	45	43	− 18	W	1	b	1	c	*	65	42	0.02
	Aberdeen ...	29.42	54	SW	4	b	29.75	+ .43	50	46	− 7	SW	2	bw	2	bc, b	3.6	62	46	—
	Leith	29.54	56	SW	4	c	29.77	+ .41	52	49	− 10	WSW	5	b	*	c	*	66	49	0.11
	Shields	29.64	58	SSW	3	c	29.90	+ .35	55	51	− 3	SW	3	b	2	p.c	*	66	51	—
	Spurn Head ...	29.73	61	SSW	5	o	30.00	+ .27	54	53	− 5	SW	4	cw	3	o,b	*	65	52	—
	York	29.71	60	SSW	2	cp	29.99	+ .36	53	51	− 6	SW	1	b	*	p.c	0.0	64	49	0.06
	Loughborough ...	29.81	61	SW	4	o	30.06	+ .27	53	51	− 7	SW	3	cw	*	c.op.bc	*	64	51	0.02
	Ardrossan ...	29.51	57	SW	5	bc	29.84	+ .47	53	52	− 5	SW	4	bp	2	b.bc	*	58	49	0.02
	Malin Head ...	29.45	55	SW	6	cq	29.80	+ .53	50	48	− 5	SW	3	bcrq	2	cq	*	59	48	0.12
	Belmullet ...	29.59	56	WSW	5	cp	29.89	+ .52	54	48	− 2	WSW	2	b	*	c.cp	*	60	48	0.03
	Donaghadee ...	29.58	57	WSW	6	b	29.95	+ .55	49	48	− 10	WSW	5	b	3	b	*	64	46	0.01
	Liverpool (Bidston)	29.74	56	SW	4	b	30.02	+ .39	53	51	− 6	SW	1	bc	2	b	*	64	52	0.06
	Holyhead ...	29.73	57	SW	6	b	29.99	+ .43	55	53	− 4	WSW	3	b	2	bc.b	*	60	53	0.11
	Parsonstown ...	29.70	57	SE	1	bc	29.98	+ .50	47	46	− 9	L	0	b	*	bc	6.9	62	45	—
	Valencia ...	29.78	57	SW	5	cw	30.00	+ .48	52	50	− 5	SSW	1	bc	4	bcrq, cw	6.4	61	51	0.05
	Roche's Point ..	29.79	58	WSW	4	b	30.03	+ .46	52	51	− 6	W	1	b	4	b	*	60	50	—
	Pembroke (St. Ann's Hd.)	29.84	57	W	6	b	30.06	+ .39	56	54	− 3	W	5	o	4	b	1.1	61	52	0.12
	Scilly	29.92	59	WSW	3	bc	30.11	+ .35	58	57	− 2	SW	3	c	3	bc	1.7	62	55	0.06
	Prawle Point ...	29.96	59	SW	4	o	30.14	+ .26	57	56	− 2	SW	3	c	3	odf, c	*	59	52	0.06
	Jersey (St. Aubin's)	30.02	63	SW	3	bc	30.17	+ .15	58	57	− 3	NW	1	cm	1	bc, ogd	*	67	55	0.06
	Hurst Castle ...	29.94	62	SW	5	pd	30.13	+ .19	55	55	− 6	WSW	1	bcm	2	cw, pd	*	65	54	0.21
	Dungeness ...	29.99	62	SSW	4	o	30.11	+ .15	58	56	− 3	SW	4	op	3	c	*	63	57	0.04
	North Foreland	30.01	64	SW	5	c	30.13	+ .15	58	56	− 3	WNW	1	c	1	c	*	65	57	0.07
	London (Brixton) ...	29.94	63	SW	2	ov	30.12	+ .20	56	54	− 6	SW	2	bc	*	cg, or, b	0.2	64	50	0.03
	Oxford	29.93	60	SW	3	o	30.11	+ .24	51	50	− 9	SSW	1	bc	*	op.	*	63	50	0.07
	Cambridge ...	29.89	61	SSW	4	pdq	30.11	+ .23	51	51	− 10	SSW	1	ow	*	pdq	1.5	66	48	—
	Yarmouth ...	29.86	62	SSW	5	bc	30.06	+ .20	54	52	− 6	WSW	3	bc	3	bc	*	65	51	—
GERMANY & HOLLAND.	Cuxhaven ...	30.01	50	S	2	m	30.08	+ .06	56	56	+ 16	SW	3	r	*	m	*	59	40	0.08
	Berlin														*		*			
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich... ..	30.38	53	SE	2	c	30.39	+ .20	49	49	− 4	SE	2	c	*	c	*	63	45	0.04
	The Helder ...	29.96	60	SW	4	c	30.05	+ .11	59	57	+ 3	WSW	1	c	2	c	*	61	54	0.08
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	30.19	+ .12	58	55	− 1	SSW	2	o	*	bc	*	64	56	—
	Cape Gris Nez...	?	63	SW	4	o	?	?	58	58	− 2	SW	1	f	1	o	*	63	57	0.04
	Paris	30.18	60	S	2	b	30.22	+ .09	55	55	− 4	SSE	2	f	*	b	*	68	52	—
	Brest	30.02	60	SW	4	f	30.16	+ .21	59	59	− 2	WNW	1	c	4	f	*	61	54	0.08
	Lorient... ...	30.05	60	WSW	4	bc	30.19	+ .13	58	58	− 1	NW	2	o	3	bc	*	66	52	—
	Rochefort ...	30.16	64	SE	2	bc	30.22	+ .09	56	55	− 1	ESE	1	bc	*	bc	*	73	54	—
	Belfort	30.20	60	N	2	b	30.29	+ .13	48	48	− 6	NE	3	f	*	b	*	67	45	—
	Lyons	30.24	60	NE	1	b	30.30	+ .09	56	56	+ 3	E	1	f	*	b	*	69	56	—
	Nice	30.20	60	L	0	b	30.23	+ .17	59	55	+ 1	E	2	b	0	b	*	70	55	—
	Perpignan ...	30.16	63	L	0	b	30.26	+ .12	53	52	− 3	SW	1	b	*	b	*	83	52	—
	Biarritz ...	30.08	71	E	4	b	30.17	+ .11	58	57	+ 1	SW	2	b	5	b	*	75	57	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.22	66	NNW	1	b	30.23	+ .04	62	60	+ 3	NNE	3	b	*	b	*	75	59	—
	Azores (P. Delgada)	30.10	63	NNE	1	bc	30.16	+ .23	63	58	0	NNE	3	bc	3	bc	*	70	61	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

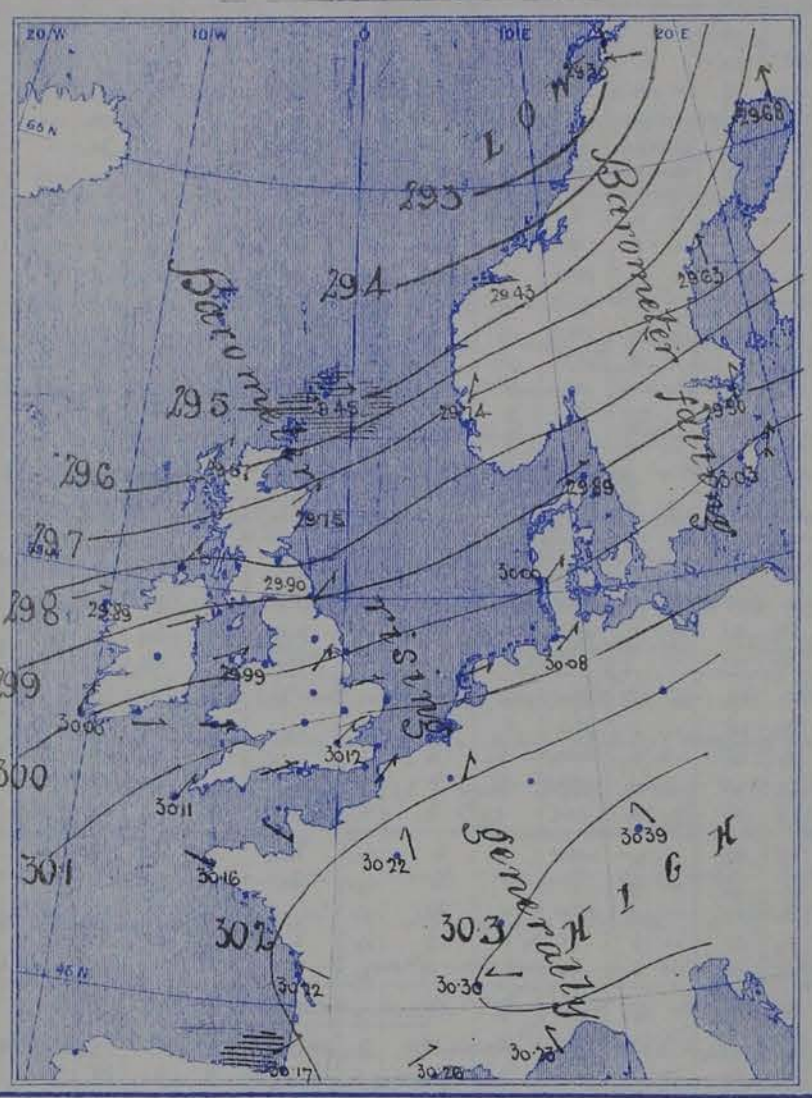
Bright Sunshine yesterday Southport 1.6 hrs;

WEATHER CHARTS

FOR Sunday, 23rd October, 1898

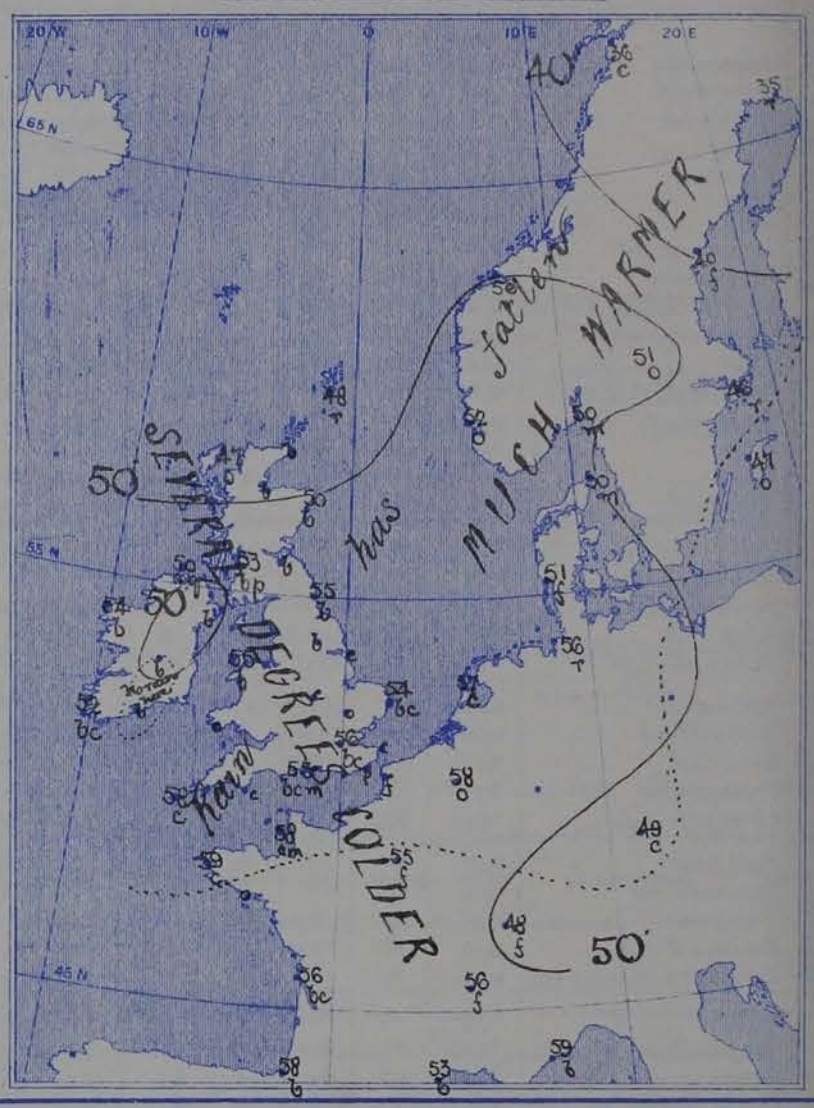
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means. 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 302 mm and upwards in an anticyclone lying over France and Germany.
Lowest, 293 mm and less, in a depression lying off the northern parts of the Norwegian coasts.
Gradients moderate to rather steep over Scandinavia and the northern parts of our Islands and the North Sea, but slight elsewhere.
Barometer rising at all but the Swedish stations.

TEMPERATURE

Highest, 62° at Lisbon, 59° at Brest and Nice, and 58° at several stations bordering on the Channel & Bay of Biscay as well as at Brussels.
Lowest, 35° at Hapranda, 36° at Bodö and 40° at Hernösand; lowest in our Islands 45° at Nairn, and 47° at Stornoway. Mean Temperature.
During yesterday the thermometer rose to between 60° and 65° in nearly all parts of the United Kingdom, to 66° at Leith Walk, and Scarborough and to 67° at Jersey.

WIND

Light to moderate from the SW^ly over northwestern Europe generally, but strong from the S^ly in Sweden, and from the E^ly in the northwest of Norway with rain at Haparanda.
Light from the NW^ly in Brittany, but rather variable over the southern parts of France.

WEATHER

Fine over nearly the whole of the United Kingdom and also in the south of France.
Cloudy or dull elsewhere with fog over Denmark and Central France and rain at Lerwick Head, Cuxhaven and several of the Swedish stations.
Rain fell yesterday in nearly all parts of northwestern Europe, but the quantity was mostly slight.

SEA

Moderate to smooth generally, but rough at Lerwick Head and rather rough at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 24th Octr 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	At 9·25 am today to districts 0, 1, & 6 to 10 "Lower Cone".

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Stornoway	29.69	51	48	SSE	8	c	6
Sumburgh Head	29.20	57	54	SW	4	c	7
Stornoway	29.18	58	52	WSW	5	b	5
Aberdeen	29.36	62	56	SW	3	bc	4
Shields	29.54	63	61	SSW	4	cp	2
Ardrossan	29.45	58	57	S	4	b	3
Malin Head ...	29.35	57	52	SSW	6	c	3
Belmullet	29.46	59	55	WSW	5	c	*
Holyhead	29.62	60	59	SW	6	bc	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.65	59	55	SW	5	bcm	6
Scilly	29.81	60	60	SW	3	c	3
Jersey	30.03	65	62	SSW	4	o	4
Hurst Castle ...	29.94	64	61	SW	6	cm	3
Dungeness ...	29.97	63	61	SSW	5	c	4
North Foreland	29.98	64	61	SW	4	c	3
London (Westminster)	29.93	64	60	SW	3	o	*
Yarmouth ...	29.86	65	60	SW	5	bc	4
Rochefort ...	30.16	68	64	SSW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over Great Britain and the northern and central parts of the Continent generally, with rain at some of our northwestern stations, as well as at Stockholm, Brussels and Munich, and snow at Kuopio and Helsingfors; fog reported in many parts of Denmark, Germany, and the Netherlands. Fine in Ireland and also over Southern Europe generally. Rain falling later over nearly the whole of northern and northwestern Europe, but amounts mostly slight.

Temperature rises generally, but falls in Sweden and Finland. Morning readings highest 70° at Barcelona, 68° at Malta and Algiers, and 67° at La Calle; above 60° in the south of England and also in many parts of Scotland. Lowest 20° at Haparanda, 27° at Ulsator and Moscow, and 28° at St Petersburg; below the freezing point at many of the Russian and Swedish stations. Rising during day to 65° or slightly above it in many parts of Great Britain, even as far north as Nairn. Exceeding 70° over the Spanish Peninsula and the south of France, and reaching 83° at Perpignan.

Wind S³ or SW³ over our Islands and the neighbouring parts of the Continent, and strong to a gale in force on many parts of our western and northern coasts; moderate to strong from the SE⁰ on the eastern shores of the North Sea. Light and variable over Central and southern Europe as a whole; E³ or NE³ in Finland; N¹ in the south of Sweden; NW¹ or W¹ over the Baltic Provinces. Gale subsiding later on our western and northern coasts, and wind veering more to the W⁰; no important change occurring elsewhere.

Barometer highest 30·2 ins: and upwards over Central France and also over the more eastern parts of Russia; 30·0 ins: and upwards over the greater part of the Continent. Lowest 29·0 ins: and less, in a deep depression with its centre a little to the northwestward of the Hebrides; gradients steep over our Islands and the North Sea. Depression subsequently moving away to the northward and barometer rising briskly in our Islands.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 24th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.55	38	SW	2	0	29.57	-.11	40	38	+5	SW	2	bc	*	0	*	40	30	0.24
	Hernösand ...	29.67	39	Z	0	0	29.87	+.24	32	31	-8	Z	0	b	*	0	*	45	32	-
	Stockholm ...	29.91	51	SSW	2	c	30.04	+.14	46	45	0	SW	4	bc	*	c	*	54	36	0.04
	Wisby	30.09	52	SSW	4	b	30.13	+.10	48	48	+1	W	4	b	*	b	*	52	36	-
	Karlstad ...	29.93	48	SW	4	b	30.04	+.25	42	42	-9	SW	2	b	*	b	*	*	*	-
	Bodö	29.31	47	SW	4	c	29.41	+.11	46	44	+10	SW	8	o	6	c	*	48	36	0.39
	Christiansund ...	29.62	45	W	9	r	29.78	+.35	47	44	-3	WSW	4	r	4	r	*	50	43	0.55
	Skudesnaes ...	29.94	50	SW	2	b	29.94	+.20	50	49	-2	SSW	4	m	4	b	*	52	48	*
	Færder (Christiania Fjord)	29.91	50	SW	4	b	30.02	+.25	47	45	-3	WSW	4	b	3	b	*	50	46	-
	Skagen (The Scaw)	30.04	46	WSW	2	m	30.09	+.20	44	44	-6	WSW	1	f	0	m	*	55	43	-
	Fanö	30.13	50	SW	2	f	30.11	+.11	48	48	-3	SW	2	c	*	f	*	55	46	-
	Sumburgh Head	29.66	50	WSW	4	c	29.58	+.13	49	47	+1	S	3	o	6	c	*	52	47	0.32
	Stornoway ...	29.70	50	W	4	o	29.46	-.11	47	45	0	WSW	3	o	3	b,cp,o	5.1	54	43	0.45
	Wick	29.76	54	W	3	bc	29.56	-.07	53	51	+6	S	4	o	2	bc	*	55	45	-
	Nairn	29.81	50	WSW	2	c	29.57	-.09	48	46	+3	SE	1	c	1	c	*	55	43	0.01
	Aberdeen ...	29.89	48	SW	3	bm	29.68	-.07	49	46	-1	SW	6	cp	3	b	7.8	57	44	-
BRITISH ISLANDS.	Leith	29.92	51	WSW	3	b	29.73	-.04	51	47	-1	SW	3	bc	*	b	*	59	47	-
	Shields	30.01	56	SSW	1	b	29.85	-.05	47	44	-8	SW	2	cm	2	bm	*	61	45	-
	Spurn Head ...	30.06	55	SW	2	bc	29.96	-.04	52	51	-1	SW	3	b	3	bc,bm	*	59	50	-
	York	30.05	52	W	1	b	29.96	-.03	47	46	-6	SW	1	b	*	c,b	1.7	61	45	-
	Loughborough ...	30.11	54	S	1	c	30.05	-.01	50	49	-3	SW	3	bw	*	bc,cp,b	*	64	49	0.01
	Ardrossan ...	29.93	54	SSW	4	bc	29.71	-.13	52	51	-1	SSW	6	rm	5	bc	*	56	50	0.01
	Malin Head ...	29.87	50	SW	4	cp	29.63	-.17	47	45	-3	SSW	5	cp,p	3	bc,cp	*	54	45	0.12
	Belmullet ...	29.93	53	WSW	4	bc	29.79	-.10	48	45	-6	W	4	c	*	b,bc	*	58	45	0.49
	Donaghadee ...	29.97	49	SW	5	b	29.80	-.15	50	48	+1	SW	5	c	3	b	*	58	45	0.01
	Liverpool (Bidston)	30.08	54	SW	1	c	29.96	-.06	51	47	-3	SSW	2	bc	3	c	*	59	46	-
	Holyhead ...	30.04	55	SW	3	bc	29.92	-.07	54	51	-1	SW	5	c	4	bc,l	*	59	51	-
	Parsonstown ...	30.02	50	S	1	b	29.89	-.09	47	45	0	S	1	r	*	bc,pb	7.0	59	44	0.19
	Valencia ...	30.06	52	SW	4	cp	29.94	-.06	54	51	+2	WSW	5	cm	5	cp	6.7	58	50	0.37
	Roche's Point ..	30.08	55	W	2	b	29.96	-.07	52	51	0	WSW	5	p	4	p,b	*	60	48	0.25
	Pembroke (St. Ann's Hd.)	30.08	57	W	3	c	30.01	-.05	56	53	0	W	6	bcp	5	c	3.2	54	53	0.08
	Scilly	30.12	57	SW	3	cp	30.13	+.02	56	54	-2	W	4	c	2	cp	7.0	63	53	0.01
	Prawle Point ...	30.17	56	SW	3	bc	30.15	+.01	55	52	-2	WSW	4	bc	3	c,p	*	[illegible]	52	0.0[illegible]
	Jersey (St. Aubin's)	30.21	59	W	3	c	30.19	+.02	57	55	-1	W	3	cpm	3	c,cmw	*	[illegible]	52	0.0[illegible]
	Hurst Castle ...	30.16	58	WSW	3	cm	30.13	.00	55	54	0	W	2	bc	2	bcm	*	[illegible]	[illegible]	0.1[illegible]
	Dungeness ...	30.15	58	WSW	4	c	30.11	.00	56	54	-2	WSW	3	cp	2	c	*	65	[illegible]	0.01
	North Foreland	30.16	58	SSW	1	c	30.11	-.02	55	54	-3	SW	2	bc	2	bc,c	*	64	[illegible]	[illegible]
	London (Brixton) ...	30.15	57	SW	2	c	30.11	-.01	53	51	-3	WSW	2	o	*	bc,c,bw	4.7	65	[illegible]	-
	Oxford	30.15	55	WSW	2	bc	30.09	-.02	51	50	0	SW	2	bm	*	bc	*	62	[illegible]	-
	Cambridge ...	30.14	55	SW	1	b	30.08	-.03	53	52	+2	SW	3	ow	*	b	6.1	65	[illegible]	
	Yarmouth ...	30.10	60	WSW	2	b	30.05	-.01	53	52	-1	SW	2	bcmw	2	b	*	62	50	0.01
GERMANY & HOLLAND.	Cuxhaven ...	30.13	54	W	2	c	30.12	+.04	47	47	-9	S	1	f	*	rm,c	*	51	45	0.20
	Berlin	30.21	56	Z	0	b	30.19		51	51		SSW	2	c	*	b	*	64	50	-
	Wiesbaden ...	*	*	*	*	*	30.19		54	54		SW	1	o	*	*	*	64	52	-
	Munich... ..	30.35	50	SE	2	f	30.28	-.11	49	49	0	SE	2	o	*	f	*	61	48	-
	The Helder ...	30.13	53	WSW	1	b	30.08	+.03	49	49	-8	SSW	1	f	0	b	*	61	45	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.18	-.01	50	50	-8	WSW	1	f	*	r	*	60	50	0.24
	Cape Gris Nez...	?	58	SW	1	bc	?	?	58	55	0	W	4	c	3	bc	*	61	54	0.12
	Paris	30.22	59	SSE	2	b	30.21	-.01	54	50	-1	Z	0	f	*	b	*	62	54	-
	Brest	30.21	58	SW	2	c	30.21	+.05	54	?	-5	SSE	2	bc	3	c	*	63	52	?
	Lorient... ...	30.24	58	W	1	o	30.23	+.04	57	57	-1	W	4	c	5	o	*	66	57	-
FRANCE &	Rochefort ...	30.22	63	NW	2	o	30.22	.00	58	57	+2	N	3	o	*	o	*	70	54	-
	Belfort	30.23	59	NE	2	b	30.22	-.07	50	50	+2	Z	0	f	*	b	*	69	42	-
	Lyons	30.28	59	N	1	bc	30.26	-.04	55	55	-1	SSW	1	f	*	bc	*	68	55	-
	Nice	30.20	61	Z	0	b	30.18	-.05	55	51	-4	E	2	f	0	b	*	72	54	-
	Perpignan ...	30.21	59	ESE	1	b	30.20	-.06	54	54	+1	W	1	o	*	b	*	70	52	-
	Biarritz ...	30.21	63	W	3	o	30.18	+.01	61	60	+3	WSW	2	o	2	o	*	70	58	-
PENIN-SULA.	Corunna ...																*			
	Lisbon	30.20	68	NNW	2	b	30.19	-.04	63	59	+1	N	3	o	*	b	*	77	61	-
	Azores (P. Delgada)	30.30	63	NE	3	bc	30.34	+.18	63	58	0	NE	2	b	3	bc	*	70	61	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

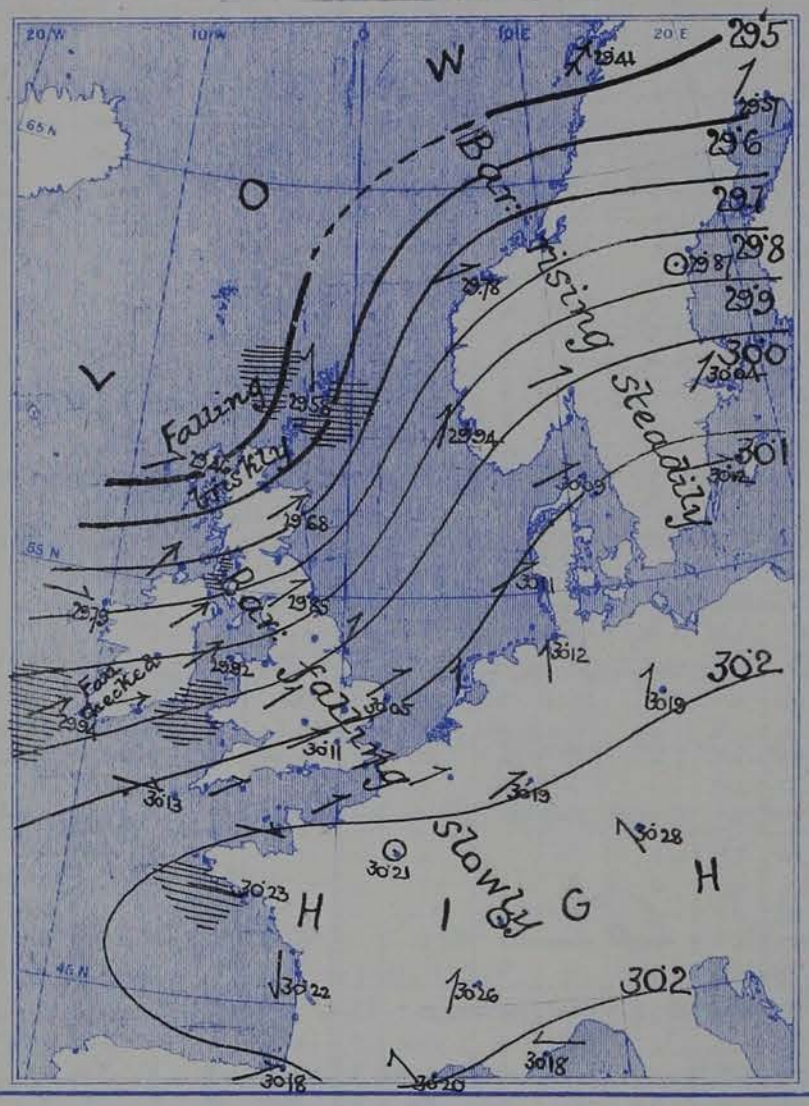
Bright Sunshine yesterday Southport 5 hrs;

WEATHER CHARTS

FOR MONDAY, 24TH OCTOBER, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; *Calm* ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means. 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years	RAINFALL. Means. 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	–

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in. and upwards, in an anticyclone lying over the Bay of Biscay, France and South Germany.
Lowest, 29·5 in. and less, in a depression off the northwest of Scotland.
Gradients rather steep over the west of Norway and the northern parts of the North Sea, but moderate or slight elsewhere.
Barometer falling at all but the Scandinavian stations; most in the north of our Islands.

TEMPERATURE

Highest, 63° at Lisbon, 61° at Biarritz, 58° at Rochefort, 57° at Lorient, and 56° at Pembroke and Dungeness.
Lowest, 32° at Hernösand, 40° at Haparanda and 42° at Karlstad; lowest in our Islands 47° at Stornoway, Leith, York, Malin Hd and Parsemetown.
During yesterday the thermometer rose to between 60° and 65° at most of the English stations; on our extreme north and northwest coasts it did not exceed 55°.

WIND

SW³ over nearly the whole of northwestern Europe; light to moderate in force generally, but strong on some parts of the Scotch coasts and blowing a fresh gale at Bodö.
Calm or variable over the central and southern parts of France.

WEATHER

Fine over England, but showery in Ireland and the west of Scotland, as well as at some of the Channel stations.
Foggy over the Netherlands, North Germany, and Central France; fine in Sweden, but dull in the west of Norway, with rain at Christiansund.
Since yesterday morning rain has fallen at most of our western, southern, and extreme northern stations, the quantity being however, mostly slight. Lunar halos were seen last night in the east and south of England, and lightning at Holyhead.

SEA

Rough at Christiansund and Lerwick Hd, and rather rough at Valencia (Ireland) and Pembroke, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions are still moving along our extreme west and northwest coasts, and squally, showery weather is likely to continue in the western and northern parts of the Kingdom generally. In the east and south the weather will probably remain fair for a time.

FORECASTS

For the 24 hours ending at NOON on 25th Oct. 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S. and SW. winds, strong in places; squally, some showers.
2 ENGLAND N.E.	SW. winds, moderate; fair at first; showery later.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW. and W. winds, moderate; fair generally, but perhaps local showers.
6 SCOTLAND WEST 7 ENGLAND N.W.	SW. and W. winds, fresh or strong; changeable, some showers.
8 ENGLAND S.W.	W. and SW. winds, fresh; fair generally, but local showers.
9 IRELAND NORTH 10 IRELAND SOUTH	Same as Nos. 6 and 7.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnæs ...	29.84	53	51	NSW	6	0	4
Sumburgh Head							
Stornoway	29.68	54	48	W	4	6g	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.86	53	49	SW	3	6c	3
Belmullet	29.94	55	50	SW	5	6	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.21	61	58	W	3	c	3
Hurst Castle ...							
Dungeness ...	30.14	61	59	SW	3	c	2
North Foreland	30.16	61	57	W	0	6c	0
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.21	70	65	NW	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 16TH TO THE 22ND OCTOBER 1898.

Throughout the earlier part of this week barometric pressure was highest (and increasing) over northern Europe, lowest (and decreasing) off the southwest of our Islands. The depression which had brought rain to our Islands, and such large quantities to the southern half of Ireland was moving eastwards to the mouth of the English Channel – where the barometer fell to about 28·6in: on Monday morning, and under its influence the wind increased to a strong gale from the E. over the northern parts of the Kingdom, and a very strong breeze from the SE. or S. over the south of England. Over Continental Europe as a whole the conditions were not much disturbed, but the wind was mainly E. over the northern and central Countries, and SW. in the extreme south. By Tuesday morning the centre of the swirl had moved northeastwards to the neighbourhood of London; the E. gale in the north had increased in strength, and a W. breeze had appeared over the Channel. The centre then moved northeastwards and began to fill up, and on Wednesday night it disappeared.

In the meantime the northern anticyclone, though increasing in intensity, had begun to move southeastwards to Central Russia, and pressure over southeastern Europe also had risen. Two other depressions then approached our west and northwest coasts – one on Thursday, the other on Friday night, and the latter brought about S. and SW. gales again in the north and west of our Islands, high temperature over our Islands, and more rain in the west and north.

At the close of the week the weather was warm and humid, but improving.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 25TH OCTOBER, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.69	40	W	4	b	29.78	+ .21	34	33	− 6	SW	2	b	*	b	*	45	32	—
	Hernosand ...	29.91	32	2	0	b	29.81	− .06	30	30	− 2	2	0	bc	*	b	*	54	28	—
	Stockholm ...	30.03	41	SW	2	bc	29.83	− .21	45	44	− 1	SE	2	f	*	bc	*	52	39	—
	Wisby	30.05	46	WSW	4	0	29.82	− .31	48	48	0	SSE	2	f	*	0	*	48	36	0.16
	Karlstad ...	29.97	45	SW	2	0	29.76	− .28	44	43	+ 2	S	4	0	*	0	*	*	*	—
	Bodö	29.67	46	WSW	6	c	29.69	+ .28	43	41	− 3	E	4	0	1	c	*	46	41	0.20
	Christiansund ...	29.71	47	SE	2	c	29.55	− .23	46	43	− 1	ESE	3	c	3	c	*	52	46	—
	Skudesnaes ...	29.72	51	S	6	0	29.57	− .37	49	46	− 1	SSW	4	0	3	0	*	52	46	*
	Færder (Christiania Fjord)	29.90	47	SSE	5	0	29.67	− .35	49	48	+ 2	SSE	4	m	3	0	*	49	46	0.24
	Skagen (The Scaw)	29.91	47	SSW	3	m	29.69	− .40	47	47	+ 3	SSW	3	f	0	m	*	48	43	0.04
	Fanö	29.91	50	SW	4	c	29.70	− .41	49	48	+ 1	SW	3	c	*	c	*	55	48	—
BRITISH ISLANDS.	Sumburgh Head	29.42	46	WSW	2	0	29.56	− .02	40	39	− 9	2	0	c	4	0	*	51	37	0.13
	Stornoway ...	29.29	45	S	3	r	29.48	+ .02	45	45	− 2	WSW	3	r	3	o.p	3.2	52	38	0.33
	Wick	29.42	46	NW	2	c	29.57	+ .01	44	43	− 9	NW	2	0	2	c	*	53	34	0.02
	Nairn	29.43	42	WSW	3	bc	29.60	+ .03	44	42	− 4	WSW	1	0	1	bc	*	51	38	0.10
	Aberdeen ...	29.54	45	SW	2	bc	29.63	− .05	45	41	− 4	SW	3	og	2	p.bc	1.2	53	41	0.01
	Leith	29.60	48	SW	4	bc	29.71	− .02	47	44	− 4	WSW	3	rm	*	bc	*	55	41	0.19
	Shields	29.70	50	SSW	2	c	29.79	− .06	46	44	− 1	SW	2	0	2	pd, c	*	57	42	0.01
	Spurn Head ...	29.79	50	SW	4	b	29.86	− .10	48	47	− 4	SW	4	b	3	p.b	*	58	45	0.04
	York	29.89	49	SSW	2	b	29.87	− .09	48	45	+ 1	WSW	2	0	*	op.b	2.6	59	44	0.04
	Loughborough ...	29.88	50	SW	5	c	29.96	− .09	48	46	− 2	SW	3	cm	*	opq.bc	*	58	44	0.04
	Ardrossan ...	29.61	51	W	5	cpq	29.67	− .04	50	50	− 2	S	5	r	4	cpq	*	52	46	0.16
	Malin Head ...	29.61	49	W	6	bcq	?	?	54	54	+ 7	W	5	rm	5	bcq, hq	*	54	40	0.36
	Belmullet ...	29.83	51	WNW	1	op	29.81	+ .02	56	55	+ 8	WSW	5	0	*	b, op	*	56	47	0.06
	Donaghadee ...	29.73	49	SW	5	r	29.77	− .03	48	48	− 2	SW	5	r	3	r	*	51	41	0.05
	Liverpool (Bidston)	29.84	49	WSW	4	b	29.91	− .05	49	47	− 2	SW	2	r	3	bc, p.b	*	55	41	0.09
	Holyhead ...	29.89	50	W	4	bc	29.90	− .02	53	52	− 1	WSW	5	cgp	4	r.bc	*	55	46	0.14
	Parsonstown ...	29.90	47	W	1	c	29.91	+ .02	55	53	+ 8	SW	2	o	*	or.c	2.7	55	44	0.17
	Valencia ...	30.01	54	W	4	0	30.02	+ .08	57	53	+ 3	SW	5	om	5	cpq, o	2.4	57	50	0.09
	Roche's Point ..	30.00	52	WNW	4	c	30.03	+ .07	56	55	+ 4	WSW	4	o	4	p.c	*	58	50	0.10
	Pembroke (St. Ann's Hd.)	29.94	54	WNW	6	bc	30.02	+ .01	57	56	+ 1	WNW	6	cq	5	bc	2.1	57	50	0.25
	Scilly	30.07	55	W	5	c	30.15	+ .02	58	55	+ 2	W	5	c	4	cp.c	5.8	62	54	0.14
	Prawle Point ..	30.05	53	WSW	6	pq	30.13	− .02	55	53	0	WSW	5	c	4	pq	*	58	51	0.14
	Jersey (St. Aubin's)	30.16	58	WSW	5	bc	30.19	.00	59	56	+ 2	W	4	c	3	bc, pq	*	62	55	0.11
	Hurst Castle ...	30.02	57	WSW	7	op	30.10	− .03	57	58	+ 2	WSW	3	o	3	c, op	*	60	51	0.07
	Dungeness ...	30.00	57	WSW	5	cq	30.06	− .05	54	51	− 2	WSW	4	c	4	b, cq	*	62	49	0.01
GERMANY & HOLLAND.	North Foreland	30.02	55	SW	4	c	30.05	− .06	50	47	− 5	WSW	3	cq	2	b, c	*	61	45	—
	London (Brixton) ...	29.97	55	WSW	8	bc	30.05	− .06	50	48	− 3	W	2	og	*	bc, op, b	4.2	62	45	0.02
	Oxford	29.96	50	WSW	3	b	30.04	− .05	50	49	− 1	SW	3	0	*	p. b	*	58	45	0.17
	Cambridge ...	29.93	52	SSW	3	p	30.00	− .08	48	46	− 5	SW	2	0	*	bc, pq	6.4	62	43	0.08
	Yarmouth ...	29.91	55	SSW	3	bc	29.94	− .11	47	45	− 6	WSW	4	bc	3	b, bc	*	59	43	—
	Cuxhaven ...	30.01	50	S	1	f	29.78	− .34	49	47	+ 2	SW	4	0	*	f	*	52	47	0.04
	Berlin	30.06	55	S	2	r	29.98	− .21	51	50	0	SSW	2	f	*	r	*	59	50	0.04
	Wiesbaden ...	*	*	*	*	*	30.09	− .10	48	48	− 6	SW	2	b	*	*	*	57	45	0.08
	Munich	30.21	50	SW	2	0	30.18	− .10	52	51	+ 3	W	3	0	*	0	*	54	49	—
	The Helder ...	29.94	55	SW	2	bc	29.87	− .21	53	47	+ 4	WNW	5	bc	3	bc	*	59	48	0.35
BELGIUM.	Brussels ...	*	*	*	*	*	30.07	− .11	47	44	− 3	WSW	4	bc	*	0	*	60	46	0.16
	Cape Gris Nez ...																*			
	Paris	30.17	55	SW	2	b	30.19	− .02	48	48	− 6	SSW	2	bc	*	b	*	62	46	—
	Brest	30.19	58	W	4	bc	30.24	+ .03	57	55	+ 3	WNW	2	0	2	bc	*	59	52	—
	Lorient	30.23	57	WNW	4	bc	30.26	+ .03	57	55	0	NW	3	0	5	bc	*	63	55	—
FRANCE &	Rochefort ...	30.21	60	NW	3	0	30.28	+ .06	54	53	− 4	E	1	bc	*	c, o	*	64	52	—
	Belfort														*		*			
	Lyons ...	30.21	57	SE	1	c	30.27	+ .01	53	?	− 2	N	2	bc	*	c	*	63	51	—
	Nice	30.16	58	2	0	b	30.13	− .05	57	54	+ 2	2	0	c	2	b	*	68	54	—
	Perpignan ...	30.19	60	E	1	0	30.20	.00	63	57	+ 9	N	2	b	*	0	*	69	55	—
	Biarritz ...	30.17	63	NNE	3	0	30.26	+ .08	58	55	− 3	NE	2	0	2	0	*	66	57	0.08
PENINSULA.	Corunna ...																*			
	Lisbon	30.14	62	N	4	0	30.13	− .06	60	58	− 3	NE	1	c	*	0	*	68	59	-
	Azores (P. Delgada)	30.36	63	NE	2	bc	30.33	− .01	60	56	− 3	NNE	1	b	3	bc	*	68	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

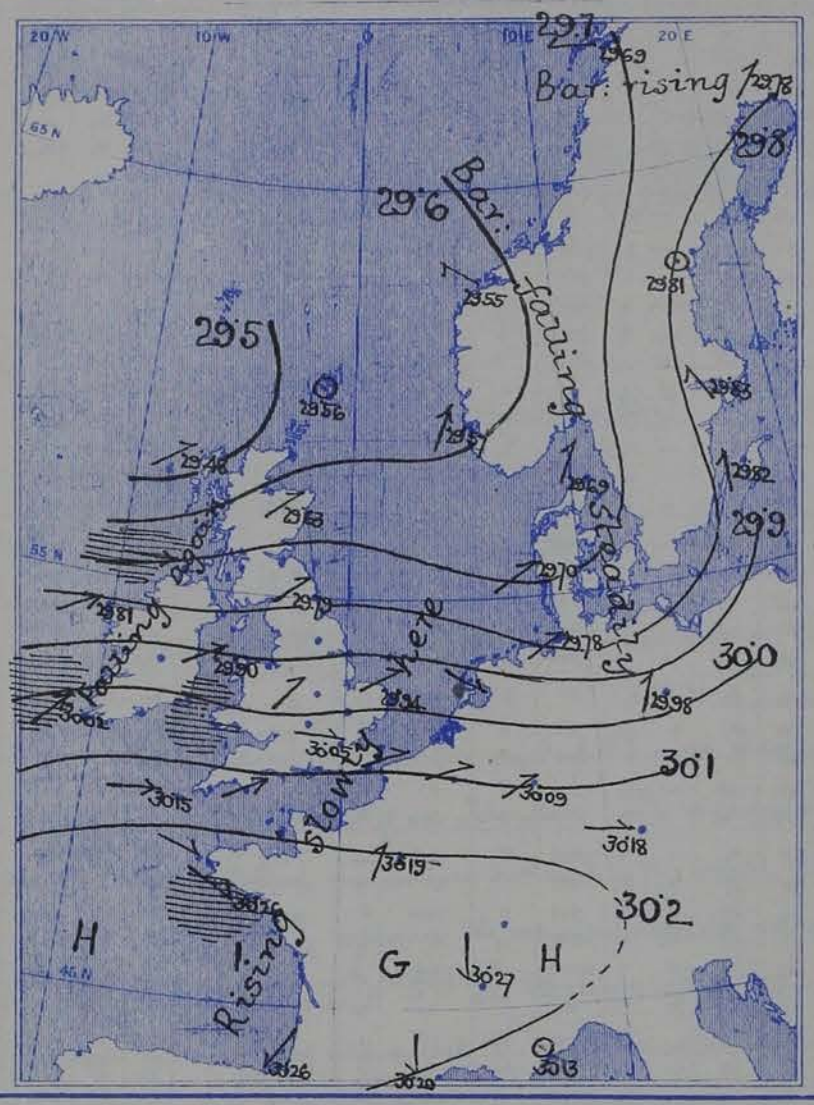
Bright Sunshine yesterday Southport 1.0 hrs;

WEATHER CHARTS

FOR Tuesday, 25th October, 1898

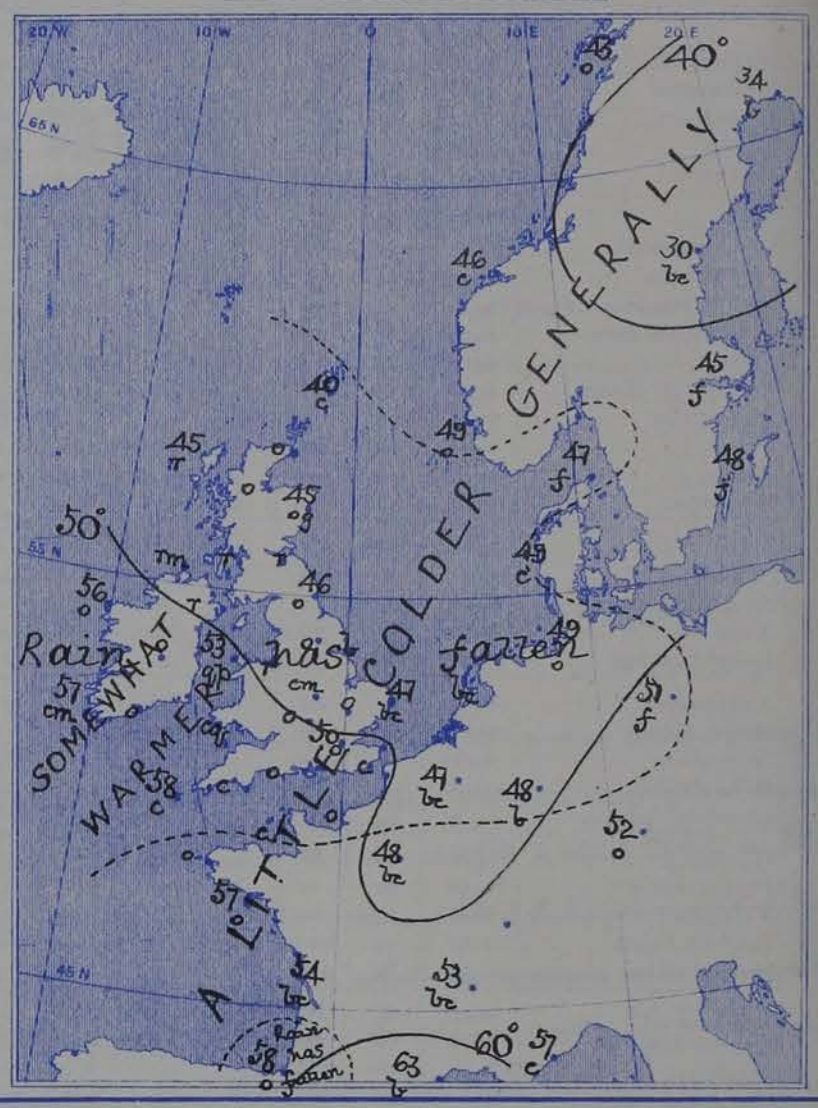
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16		–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more to 30.1 ins. over the Bay of Biscay, France and the extreme south of England.
Lowest. Below 29.5 ins. over the extreme NW. of Scotland, and below 29.6 ins. in the W. of Norway.
Gradients moderate over our Islands. Barometer falling again in the extreme NW. and W.

TEMPERATURE

Highest 55° to 58° along our extreme S. and SW coasts, and 56° at Belmullet.
Lowest 30° at Hernösand, 34° in the northern extremity of the Gulf of Bothnia; 40° at Sumburgh Hd., 44° at Wick and Nairn.
It rose during yesterday to a little above 60° over our S^rn. counties, and to between 55° and 53° in the north of Scotland and in some parts of Sweden.

WIND

W^ly. and SW^ly. over our Islands as a whole, more S^ly. over the North Sea, and SE^ly. to E^ly. in the northwest of Norway. In force it is moderate at the eastern stations, strong to fresh in the west and south.
A W^ly. gale was felt in the north of Ireland and at Ardrossan last evening for a short time.

WEATHER

Cloudy and changeable throughout our Islands, and rainy on our NW^rn. coasts generally; dull on the E^rn. shores of the North Sea; fine over France.
Rain has fallen very generally, but not in large quantities. Bright Sunshine recorded yesterday amounted to more than 6 hrs. at several of our SE^rn. stations, but amounted to only 1.2 hrs. at Aberdeen, and 1.0 hr. at Southport.

SEA

Rough off the extreme N. and W. of Ireland, moderate generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Changeable weather is still probable, with increasing SW^ly. winds.

FORECASTS

For the 24 hours ending at NOON on 26th. OCTOBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW^ly. and W^ly. winds, strong; squally, showery.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	SW^ly. and W^ly. winds, fair, then rainy, unsettled and cooler.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	W^ly. and SW^ly. winds, fresh or strong, changeable from fair to rainy.	WARNINGS	None issued at present.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.85	51	49	S	6	o	4
Sumburgh Head	29.45	50	49	SW	9	o	5
Stornoway	29.41	50	45	WSW	4	o	4
Aberdeen	29.56	51	47	SW	3	bc	3
Shields	29.75	53	50	SSW	3	od	2
Ardrossan	29.63	51	50	W	5	bc	4
Malin Head ...	29.60	51	47	SSW	6	bcq	5
Belmullet	29.79	53	48	WNW	6	b	*
Holyhead	29.83	53	50	WSW	5	bc	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.98	55	49	W	6	qr	6
Scilly	30.08	59	56	WNW	5	op	3
Jersey	30.17	61	55	W	3	bc	3
Hurst Castle ...	30.07	59	56	WNW	5	c	3
Dungeness ...	30.04	61	56	WSW	4	b	4
North Foreland	30.04	61	53	SW	4	b	2
London (Westminster)	30.02	61	51	WSW	3	o	*
Yarmouth ...	29.96	59	53	WSW	3	b	2
Rochefort ...	30.24	61	58	N	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair generally over nearly the whole of the S^rn. half of Europe, but foggy in many places; changeable in the N., with rain at several stations; fine over England, mostly over Scotland and Ireland. Rain falling later throughout our Islands and in some parts of Germany and Scandinavia – but not in large quantities. Hail squalls reported at Malin Hd.

Temperature in morning highest 69° at Algiers, 68° at Malta, and exceeding 60° at many coast stations in S^rn. Europe; 50° to 55° over the S. of England, and 53° to 49° in the S. and E. of Scotland, 49° at the Helder and Copenhagen, 48° at Wisby. Lowest 31° at Archangel, 34° at Moscow, 35° at Karkow and at Odessa. Rising later to between 60° and 62° over the S. of our Islands, and to between 66° and 69° in the S. of France, but not exceeding 55° to 50° at the Scotch stations.

Wind (1) W^ly. to S^ly. over all the northwestern and northern countries, blowing rather strongly at many of our western and northern stations, and a gale at Bodö; (2) light in force over all the southern and eastern countries, anticyclonic in direction. Some severe squalls from the W^nd. observed in the north of Ireland later, but as a whole not much change reported.

Barometer highest 30.5 ins. and more to 30.4 ins. over the S^rn. parts of Russia, and exceeding 30.2 ins. in a large system covering the E^rn. and S^rn. countries generally. Lowest below 29.4 ins. over Finmark, and below 29.5 ins. over the Hebrides and NW. of Scotland. Gradients somewhat steep over the British Islands and the N^rn. half of Scandinavia. Changing fitfully later over Scotland and the North Sea, not much alteration in the south.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 26th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	FAST 24 HOURS. Weather	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.78	35	SW	2	0	29.60	-.18	30	29	-4	2	0	0	*	0	*	41	30	-
	Hernosand ...	29.66	37	2	0	f	29.49	-.32	38	37	+8	2	0	f	*	f	*	39	27	-
	Stockholm ...	29.57	46	2	0	f	29.50	-.33	45	44	0	W	4	c	*	f	*	48	37	0.02
	Wisby	29.64	49	SW	4	bc	29.61	-.21	44	43	-4	WNW	4	bc	*	bc	*	50	43	-
	Karlstad ..	29.56	45	2	0	r	29.47	-.29	43	42	-1	SW	2	0	*	r	*	*	*	0.12
	Bodo	29.56	42	E	4	b	29.41	-.28	41	37	-2	E	4	b	1	b	*	45	37	-
	Christiansund ...	29.49	46	ESE	2	c	29.19	-.36	44	41	-2	ESE	2	0	3	c	*	50	43	-
	Skudesnaes ...	29.57	49	WSW	4	0	29.35	-.22	51	48	+2	W	7	0	4	c.o	*	52	46	*
	Færder (Christiania Fjord)	29.54	47	SW	2	b	29.40	-.27	47	46	-2	SSE	4	r	2	b	*	49	43	0.16
	Skagen (The Scaw)	29.62	43	W	2	m	29.46	-.23	46	46	-1	SSW	3	r	0	m	*	50	44	0.24
	Fano	29.73	48	WSW	1	r	29.71	+.01	52	51	+3	WSW	4	0	*	r	*	52	46	0.12
	Sumburgh Head	29.36	45	S	2	0	29.17	-.39	49	46	+9	W	7	bc	6	0	*	51	40	0.42
	Stornoway ..	29.38	52	W	3	0	29.47	-.01	47	45	+2	W	3	b	3	r, o	0.1	54	43	1.00
	Wick	29.37	46	WNW	5	c	29.45	-.12	47	45	+3	WNW	6	bc	3	c	*	54	40	0.05
	Nairn	29.43	54	W	1	c	29.53	-.07	49	45	+5	WSW	3	b	2	c	*	55	42	0.30
	Aberdeen ...	29.47	48	SSW	2	bc	29.58	-.05	51	45	+6	SW	3	b	2	r.o.g.f.g	0.0	55	43	0.23
BRITISH ISLANDS.	Leith	29.57	53	WSW	4	0	29.67	-.04	51	48	+4	WSW	5	b	*	0	*	57	45	0.17
	Shields	-	-	-	-	-	29.74	-.05	53	51	+7	WSW	3	bc	2	o p	*	59	44	0.03
	Spurn Head ...	29.80	56	WSW	5	0	29.88	+.02	56	55	+8	SW	4	c	3	0	*	56	47	-
	York	29.80	57	WSW	-3	0	29.86	-.01	56	52	+8	WSW	2	c	*	0	0.0	58	47	0.01
	Loughborough ..	29.94	57	SW	4	0	29.95	-.01	57	54	+9	SW	4	c.g	*	c.o.g.c.g	*	57	48	-
	Ardrossan ...	29.66	56	SW	4	r	29.73	+.06	53	52	+3	WSW	5	bc.g	4	r	*	56	49	0.11
	Malin Head ...	29.61	54	W	6	rm	29.70	?	53	50	-1	WSW	5	b	4	r.r.m	*	55	49	0.26
	Belmullet ...	29.77	56	WSW	7	o m	29.83	+.02	55	51	-1	W	4	c	*	o, o m	*	57	51	0.04
	Donaghadee ...	29.75	55	SW	5	0	29.83	+.06	50	49	+2	WSW	4	bc	2	bc	*	57	47	0.04
	Liverpool (Bidston)	29.89	57	WSW	5	0	29.89	-.02	54	52	+5	WSW	5	o	3	o p	*	58	48	0.11
	Holyhead ...	29.88	57	SW	5	0	29.91	+.01	56	55	+3	WSW	3	c.d.p	3	g m d	*	57	52	0.06
	Parsonstown ...	29.90	56	SW	1	0	29.92	+.01	53	52	-2	W	0	r	*	o, r	0.0	58	52	0.23
	Valencia ...	29.99	58	SW	4	o g	29.9	-.04	56	55	-1	SW	3	o	5	o m g	0.0	59	52	0.07
	Roche's Point ..	30.01	58	W	4	c	30.01	-.02	55	54	-1	W	2	bp	3	o, c d	*	59	54	0.05
	Pembroke (St. Anu's Hd.)	30.02	57	W	5	0	30.02	.00	57	57	0	WSW	6	o g m	5	o	0.4	57	55	0.02
	Scilly	30.14	57	WSW	4	cp	30.12	-.03	57	55	-1	W	4	c	3	c p	4.3	61	53	-
	Prawle Point ...	30.15	56	WSW	5	o	30.14	+.01	57	55	+2	WSW	5	c	4	c p	*	58	54	0.03
	Jersey (St. Aubin's)	30.22	58	W	5	c g	30.16	-.03	59	57	0	WSW	4	cp	3	c	*	62	56	0.02
	Hurst Castle ...	30.10	57	WSW	4	c	30.11	+.01	59	57	+2	WSW	4	c	3	c, c	*	61	56	-
	Dungeness ...	30.04	59	WSW	6	c	30.07	+.01	59	57	+5	WSW	6	bc	5	c	*	60	53	-
	North Foreland	30.04	57	SW	4	0	30.07	+.02	56	53	+6	SW	4	c	2	0	*	58	48	-
	London (Brixton) ...	30.04	57	WSW	4	o d	30.07	+.02	56	53	+6	WSW	4	o	*	o, o p, bc	0.1	59	49	0.01
	Oxford	30.02	56	SW	5	0	30.05	+.01	55	54	+5	WSW	2	op	*	op	*	59	53	-
	Cambridge ...	29.97	57	SW	4	0	30.00	.00	55	53	+7	SW	3	b	*	0	0.0	58	46	-
	Yarmouth ...	29.91	55	WSW	3	r	29.97	+.03	56	54	+9	W	4	c	3	c, r	*	56	45	0.05
GERMANY & HOLLAND.	Cuxhaven ...	29.85	48	W	4	0	29.80	+.02	52	51	+3	WSW	5	c	*	0	*	54	46	0.08
	Berlin	29.98	46	W	3	0	29.93	-.05	53	52	+2	W	4	r	*	0	*	55	45	0.16
	Wiesbaden ...	*	*	*	*	*	30.17	+.08	53	52	+5	SW	1	0	*	*	*	55	48	0.08
	Munich	30.28	50	W	6	0	30.32	+.14	47	46	-5	SW	3	r	*	0	*	55	46	0.04
	The Helder ...	29.88	55	WSW	4	r	29.93	+.06	57	55	+4	WSW	3	b	3	r	*	57	52	0.12
BELGIUM.	Brussels ...	*	*	*	*	*	30.13	+.06	54	53	+7	WSW	4	0	*	0	*	55	46	0.04
	Cape Gris Nez ...	?	59	W	7	0	?	?	58	55		WNW	5	0	5	0	*	59	48	-
	Paris	30.25	56	SW	2	bc	30.26	+.07	49	49	+1	SSW	2	bc	*	bc	*	60	48	-
	Brest	30.26	58	WSW	2	c	30.21	-.03	57	55	0	WSW	3	c	3	c	*	63	54	-
	Lorient ...	30.28	58	W	3	bc	30.26	.00	57	55	0	WSW	3	c	4	bc	*	63	55	-
FRANCE &	Rochefort ...	30.30	59	WNW	3	c	30.26	-.02	51	50	-3	E	2	m	*	b, c	*	68	50	-
	Belfort ...	30.27	51	WSW	4	0	30.28		45	44		WSW	3	f	*	0	*	54	?	-
	Lyons	30.34	51	WNW	1	bc	30.33	+.06	50	49	-3	NW	1	bc	*	bc	*	60	48	-
	Nice	30.10	58	2	0	bc	30.16	+.03	54	52	-3	E	1	bc	1	bc	*	68	54	-
	Perpignan ...	30.25	61	W	2	b	30.23	+.03	59	51	-4	NW	2	bc	*	b	*	70	56	-
	Biarritz ...	30.26	62	N	3	0	30.21	-.05	51	50	-7	E	3	b	4	0	*	64	50	-
PENINSULA.	Corunna ...																*			
	Lisbon	30.13	67	NE	4	bc	30.16	+.03	62	57	+2	NNE	4	b	*	bc	*	75	63	-
	Azores (P. Delgada)	30.30	63	2	0	c	30.23	-.10	61	56	+1	NNE	2	0	2	c	*	66	59	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

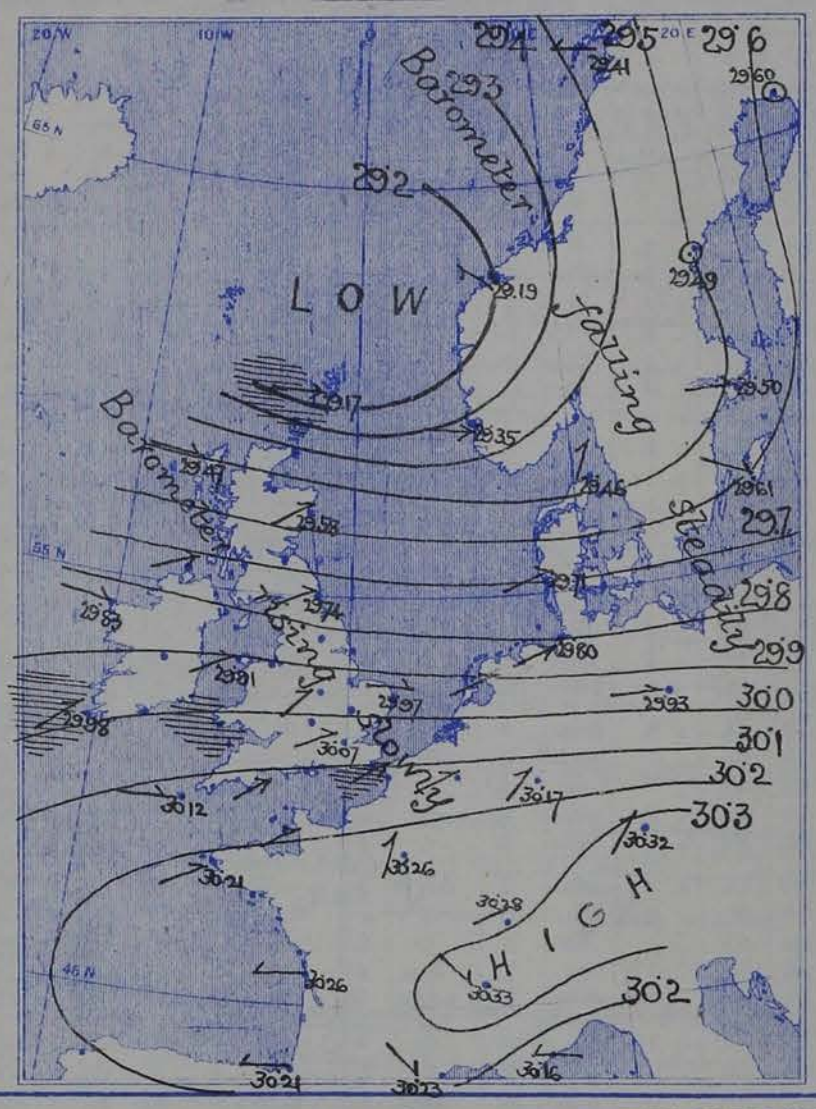
Bright Sunshine yesterday Southport 0·0 hrs.

WEATHER CHARTS

FOR Wednesday, 26th October, 1898

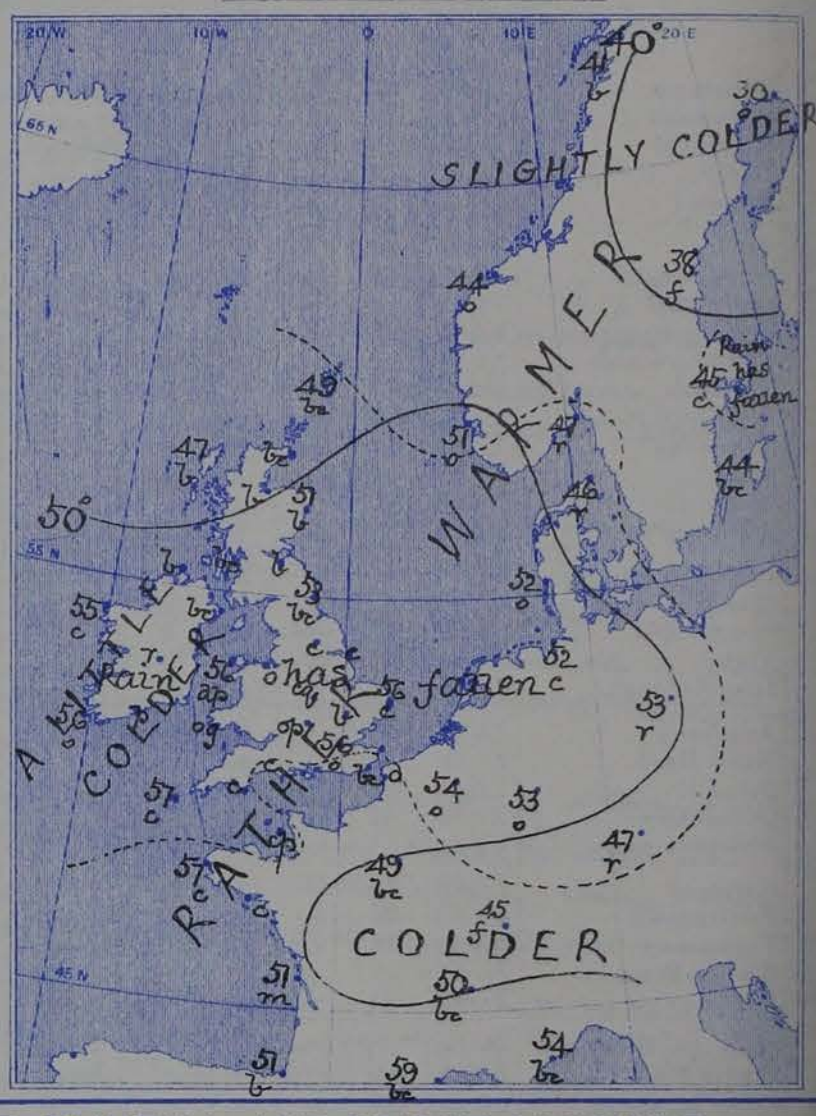
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means. 1866—95	BRIGHT SUNSHINE. Means, 1881—95 Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	34
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–		–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–		5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77		–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78		–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60		–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43		–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11		

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins. to 30·3 ins. and upwards in an anticyclone over France and south Germany.
Lowest, 29·2 ins. and less, in a large depression with its centre to the northward of the Shetlands.
Gradients rather steep over the North Sea and the north of Scotland, but moderate or slight elsewhere.
Barometer rising a little in most parts of the United Kingdom, but falling slightly on our extreme southwest coast; falling at most of the Scandinavian stations.

TEMPERATURE

Highest, (1) 59° at Hurst Castle, Dungeness, and Jersey, and 57° at Pembroke, Scilly, Prawle Point, Berk, and Lizard; (2) 59° at Perpignan.
Lowest, 30° at Haparanda, 38° at Hernösand, 41° at Bodö, and 43° at Tönder; lowest in our Islands 47° at Stornoway and Wick.
During yesterday the thermometer rose to between 55° and 60° in most parts of the United Kingdom, to 61° at Scilly and Hurst Castle, and to 62° at Jersey.

WIND

W. or SW. over southwestern Europe generally; moderate or fresh in force in most places, but very strong in the extreme north of Scotland and the west of Norway; E. in the west of Norway; calm in the Gulf of Bothnia.
Variable or light from the E. over the southern parts of France.

WEATHER

Fine over the northern and eastern parts of our Islands and also in France.
Cloudy or dull elsewhere, with showers at some of our western and southern stations, and with steady rain at Fredericksharn, Skagen, Berlin, and Munich.
Rain fell yesterday in the west and north of our Islands generally, and slight showers at some of our eastern and southern stations; rain was also reported over the Netherlands, Germany, Denmark, and the south of Scandinavia. Aurora was seen last night in the extreme north of Scotland.

SEA

Rough at Lerwick Hr. and rather rough on our southwest coasts, as well as in the Straits of Dover; moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north appears to be moving away to the northeastward. There are at present no signs of any very decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 27th Oct. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W. to SW. breezes, fresh; gusty, occasional rain, mild.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	W. to SW. breezes, fresh; gusty, occasional rain, mild.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29.55	50	46	SW	2	c	3
Sumburgh Head	29.42	47	44	S	2	o	4
Stornoway	29.36	54	52	W	4	o	4
Aberdeen	29.50	47	46	SSW	3	og	2
Shields	29.65	57	55	SW	2	op	2
Ardrossan	29.61	56	55	WSW	5	r	4
Malin Head	29.61	55	55	W	6	r	4
Belmullet	29.79	57	54	WSW	6	o	*
Holyhead	29.88	56	55	SW	4	ogmd	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.01	59	56	SW	5	og	6
Scilly	30.14	59	56	WSW	5	cfo	4
Jersey	30.22	62	57	WSW	5	c	4
Hurst Castle	30.09	60	58	WSW	4	o	3
Dungeness	30.04	59	57	WSW	5	c	4
North Foreland	30.04	58	55	WSW	3	o	2
London (Westminster)	30.02	59	54	W	5	og	*
Yarmouth	29.93	53	51	SW	4	c	3
Rochefort	30.30	63	58	SW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the United Kingdom, with rain on our northwest coasts. Dull over the northern, central, and eastern parts of the Continent generally, with fog in many places, and rain over the Baltic Provinces, as well as at Münster, fine in the Gulf of Bothnia. Fine over France, Spain, Italy, and the Mediterranean. Rain falling later in most parts of northwestern Europe; amounts slight as a rule, but heavy (1·0 in.) at Stornoway. Aurora seen in the extreme north of Scotland.

Temperature rises in Ireland, as well as in many parts of Denmark and southern Europe, fallen elsewhere. Morning readings highest 67° at Malta and Algiers, 66° at Brindisi and 65° at Lesina; above 60° at most of the Mediterranean and Adriatic stations, and above 55° on our own southwest coasts. Lowest 30° at Hernösand, 32° at Kharkov, and 33° at Moscow; below 40° in most parts of Sweden and Russia, and below 45° in the north of Scotland. Rising during day to between 55° and 60° over the United Kingdom generally, and to 62° at Jersey; exceeding 65° in the south of France, and reaching 70° at Perpignan.

Wind light to fresh from the SW^ly over our Islands, the North Sea, Denmark, and Germany; light from the S^ly over the Baltic, Sweden, and Finland, and from the E^ly in the west of Norway; calm in Austria, variable in Italy. Light from the E^ly or NE^ly over the Spanish Peninsula and the southwest of France. Subsequently increasing to a strong breeze or moderate gale from the SW^ly or W^ly in the north of Ireland; no important change occurring elsewhere.

Barometer highest 30·4 in. and upwards in the south of Russia; 30·3 in. and upwards over Central France; 30·1 in. and upwards in an anticyclone covering all the more southern parts of Europe. Lowest 29·5 in. and less, in a depression off the northwest of Scotland. Depression subsequently moving eastwards; barometer falling in most parts of northwestern Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 27th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.39	32	SSW	2	0	29.46	-.14	32	31	+ 2	N	2	0	*	0	*	36	27	-
	Hernösand ...	29.40	37	N	2	0	29.53	+.04	35	34	- 3	NE	0	c	*	0	*	39	34	-
	Stockholm ...	29.39	42	NE	0	0	29.59	+.09	42	41	- 3	W	2	b	*	0	*	46	39	0.08
	Wisby	29.50	49	WNW	9	b	29.71	+.10	48	46	+ 4	WNW	6	b	*	b	*	50	41	0.12
	Karlstad ...	29.38	46	WNW	4	b	29.62	+.15	43	41	0	WSW	2	b	*	r.b	*	*	*	0.28
	Bodö	29.36	38	E	4	b	29.41	.00	37	34	- 4	E	2	b	1	b	*	45	34	-
	Christiansund ...	29.25	46	WSW	8	r	29.49	+.30	47	45	+ 3	W	6	r	5	r	*	47	43	0.16
	Skudesnaes ...	29.63	51	W	5	b	29.71	+.36	51	49	0	WSW	4	0	4	b	*	52	48	*
	Færder (Christiania Fjord)	29.47	49	WSW	6	b	29.65	+.25	48	46	+ 1	WSW	6	b	3	b	*	50	45	0.12
	Skagen (The Scaw)	29.64	49	NW	7	m	29.82	+.36	48	47	+ 2	W	3	m	2	m	*	50	46	0.08
	Fanö	29.90	50	W	4	b	29.93	+.22	50	49	- 2	WSW	3	c	*	b	*	55	48	-
BRITISH ISLANDS.	Sumburgh Head	29.44	49	W	5	c	29.53	+.36	49	47	0	W	4	p	5	bc.c	*	52	45	0.07
	Stornoway ...	29.52	49	WSW	3	bc	29.59	+.12	47	45	0	WNW	4	c	2	c.rg.bc	5.4	52	43	0.80
	Wick	29.55	50	WNW	2	bc	29.61	+.16	47	45	0	WNW	2	bc	1	bc	*	54	42	-
	Nairn	29.61	47	WSW	3	b	29.69	+.16	45	44	- 4	W	2	c	1	b	*	55	41	0.02
	Aberdeen ...	29.68	50	SW	2	bc	29.77	+.19	46	43	- 5	SW	2	bmw	1	b, bc	7.5	57	43	-
	Leith	29.74	52	WSW	1	0	29.80	+.13	49	46	- 2	WSW	3	b	*	0	*	57	46	0.02
	Shields	29.85	54	WSW	1	c.m	29.88	+.14	50	48	- 3	SW	2	c	2	bc.cm	*	60	48	-
	Spurn Head ...	29.91	56	WSW	3	c	29.95	+.07	54	54	- 2	WSW	3	c	3	c.p	*	57	53	0.01
	York	29.91	55	WSW	2	b	29.95	+.09	52	50	- 4	SW	1	c	*	b	6.5	61	50	-
	Loughborough ...	29.97	58	SW	2	0	29.99	+.04	53	51	- 4	SW	1	cm	*	0.c.p.0	*	61	53	0.13
	Ardrossan ...	29.76	53	SW	4	cgp	29.84	+.11	52	51	- 1	SW	4	c	3	cg.p	*	55	50	0.12
	Malin Head ...	29.73	50	WSW	5	cmrg	29.80	+.10	49	47	- 4	SW	4	cg.m	2	bc.gmr	*	54	47	0.18
	Belmullet ...	29.81	54	WSW	5	0	29.92	+.09	50	48	- 5	WSW	2	c	*	c.0	*	56	48	0.03
	Donaghadee ...	29.82	53	WSW	3	c	29.89	+.06	45	45	- 5	WSW	3	bc	1	c	*	57	42	0.01
	Liverpool (Bidston)	29.92	56	WSW	2	0	29.96	+.07	52	49	- 2	SW	2	c	2	c.0	*	59	50	0.06
	Holyhead ...	29.91	56	SW	4	0g	29.95	+.04	54	52	- 2	WSW	1	0	1	c.0g	*	59	51	-
	Parsonstown ...	29.90	52	SW	1	r	29.92	.00	49	48	- 4	NE	0	0	*	c.r	3.3	58	46	0.03
	Valencia ...	29.94	54	WSW	4	bc	29.93	-.05	51	50	- 5	NE	0	0g	5	0g.bc	1.3	59	50	0.07
	Roche's Point ..	29.95	55	W	2	dp	29.95	-.06	53	53	- 2	SE	1	r	3	c.dp.r	*	59	52	0.06
	Pembroke (St. Ann's Hd.)	29.98	56	W	5	0	29.98	-.04	53	53	- 4	ESE	5	rm	3	0	0.0	58	52	0.22
	Scilly	30.06	57	SSW	4	c	29.99	-.13	57	55	0	SSW	4	c	3	c	3.5	61	54	-
	Prawle Point ...	30.10	56	WSW	5	c	30.07	-.07	56	53	- 1	SW	4	c	4	cp.c	*	58	54	0.01
	Jersey (St. Aubin's)	30.17	60	SW	4	ogp	30.12	-.04	58	54	- 1	SW	4	0g	3	0v.gp	*	61	55	0.09
	Hurst Castle ...	30.10	58	WSW	4	c	30.08	-.03	58	56	- 1	SW	3	0	2	c	*	61	56	-
	Dungeness ...	30.09	59	WSW	5	c	30.08	+.01	59	56	0	WSW	4	c	4	0	*	63	57	-
	North Foreland	30.10	58	WSW	4	0	30.09	+.02	55	52	- 1	SW	3	cg	2	0	*	63	52	-
	London (Brixton) ...	30.07	58	SW	3	0	30.06	-.01	55	53	- 1	SW	2	bc	*	0.bc	0.5	61	53	-
	Oxford	30.05	56	SW	2	0	30.05	.00	55	54	0	SW	3	0dp	*	0dp	*	60	54	-
	Cambridge ...	30.03	58	SW	3	0	30.04	+.04	55	54	0	SW	2	0	*	c.0	4.0	63	52	-
	Yarmouth ...	29.98	58	SW	3	bc	30.00	+.03	57	55	+ 1	WSW	3	c	3	c.bc	*	61	53	-
GERMANY & HOLLAND.	Cuxhaven ...	29.93	54	W	5	0	29.98	+.18	54	53	+ 2	SW	3	r	*	0	*	55	52	0.04
	Berlin	30.04	56	W	4	0	30.08	+.15	55	53	+ 2	W	2	0	*	0	*	59	53	-
	Wiesbaden ...	*	*	*	*	*	30.21	+.04	52	51	- 1	SW	1	0	*	*	*	57	52	-
	Munich... ..	30.30	47	NE	0	b	30.28	-.04	41	40	- 6	NE	0	b	*	b	*	57	39	-
	The Helder ...	29.98	54	SW	2	0	30.01	+.08	57	55	0	SW	2	bc	1	0	*	57	54	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.16	+.09	53	50	- 1	SSW	1	0	*	0	*	60	52	-
	Cape Gris Nez...	?	59	WNW	5	0	?	?	58	55	0	W	3	0	4	0	*	59	55	-
	Paris	30.25	50	SSW	2	bc	30.19	-.07	49	48	0	SE	1	bc	*	bc	*	62	48	-
	Brest	30.18	58	WSW	2	c	30.08	-.13	57	55	0	S	2	c	2	c	*	59	54	-
	Lorient... ...	30.21	58	SW	2	bc	30.12	-.14	55	54	- 2	SSE	2	0	2	bc	*	66	54	-
FRANCE &	Rochefort ...	30.25	58	E	1	b	30.12	-.14	46	45	- 5	E	1	m	*	c.b	*	68	45	-
	Belfort	30.26	50	WSW	1	bc	30.22	-.06	44	43	- 1	N	1	f	*	bc	*	59	37	-
	Lyons	30.28	53	N	1	b	30.24	-.09	41	40	- 9	S	1	b	*	b	*	63	?	-
	Nice	30.19	60	NE	0	b	30.20	+.04	55	52	+ 1	E	1	b	0	b	*	68	54	-
	Perpignan ...	30.21	54	NE	0	b	30.18	-.05	48	48	- 11	SW	1	c	*	b	*	70	45	-
	Biarritz ...	30.12	61	E	3	b	30.05	-.16	55	52	+ 4	SE	2	b	2	b	*	66	51	-
PENINSULA.	Corunna ...																*			
	Lisbon	30.11	67	N	3	0	30.07	-.09	61	58	- 1	NNE	3	0	*	0	*	72	61	-
	Azores (P. Delgada)	30.20	61	NW	2	c	30.15	-.08	61	57	0	NNW	4	c	3	c	*	68	59	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

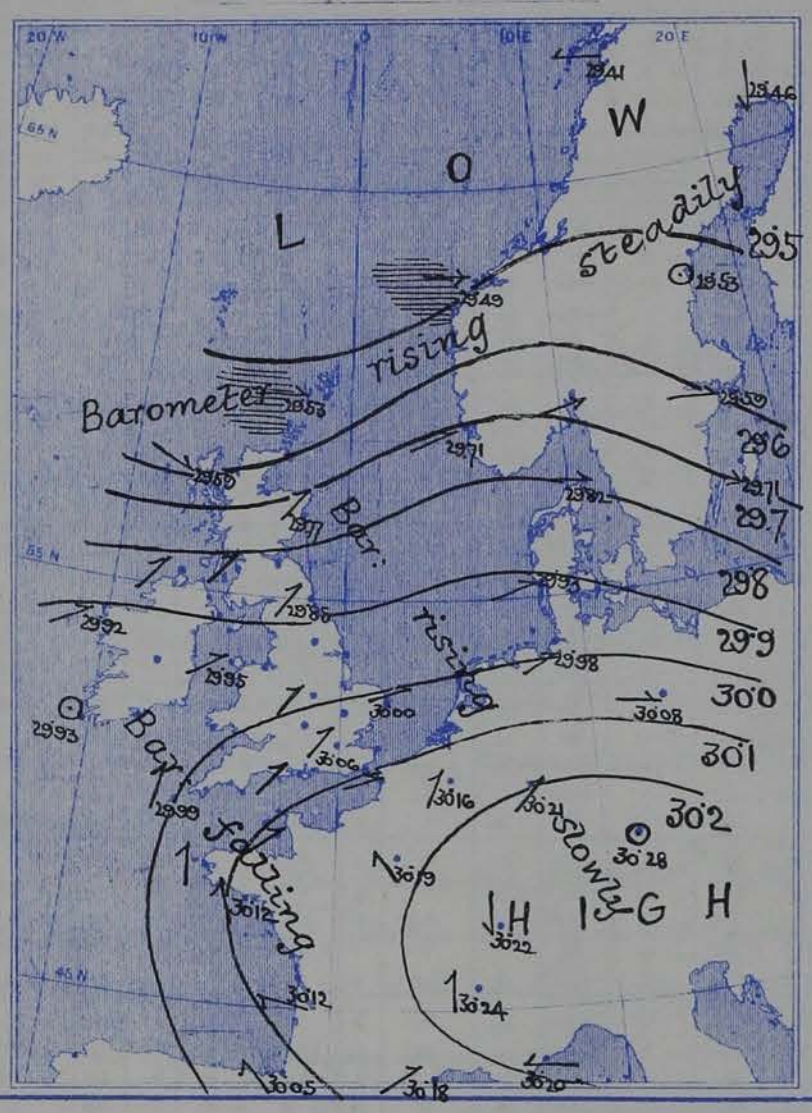
Bright Sunshine yesterday Southport 3.5 hrs.

WEATHER CHARTS

FOR Thursday, 27th October, 1898

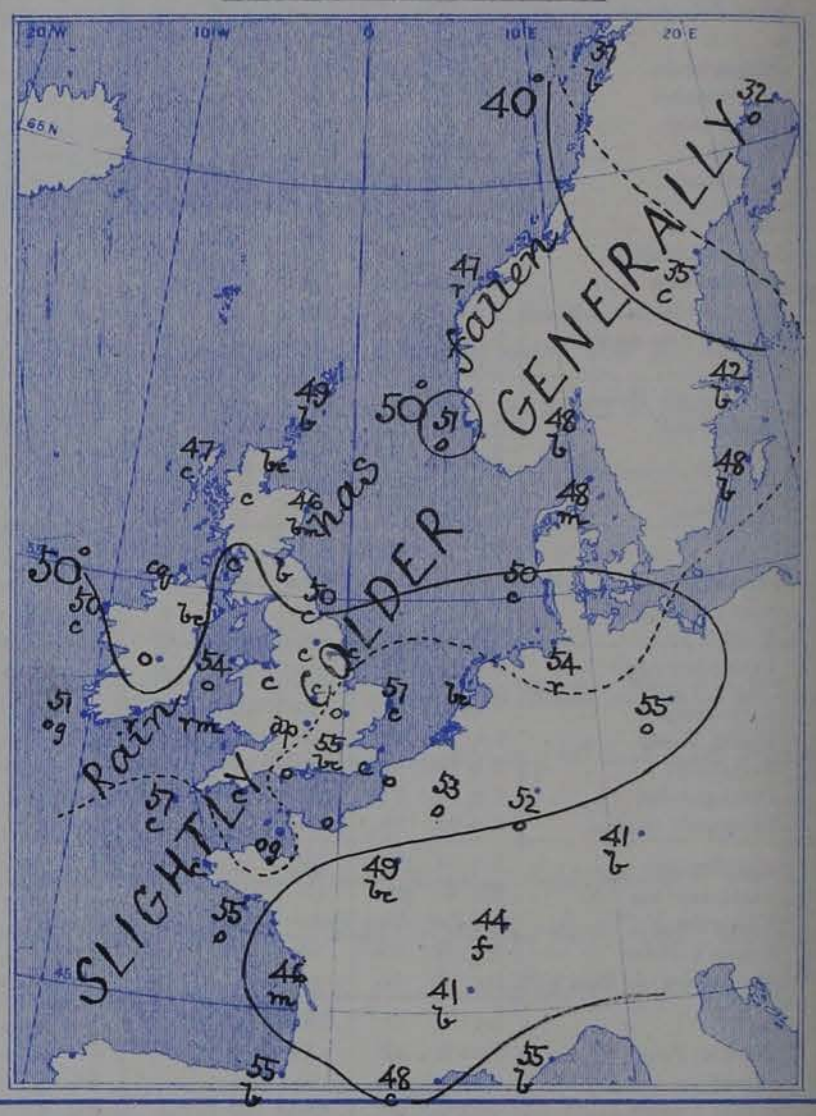
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94.	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–	–	–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	–
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and more to 30·0 ins: over Germany, France, and the south of England.
Lowest, (1) Below 29·5 ins: over the northern parts of Scandinavia, and 29·53 ins: at Lumburgh Head: (2) apparently, about 29·9 ins: or less, off the south of Ireland.
Gradients moderate to slight.
Barometer still rising in the north, but has begun to fall again in the southwest of England and at Ushant.

TEMPERATURE

Highest, 57° at Brest, 58° at Brest, and 59° to 55° over the southern counties of England as a whole.
Lowest, (1) 32° to 37° at the northern stations in Scandinavia, 42° at Stockholm, 45° at Nairn: (2) 41° at Lyons, 49° at Paris.
The maxima recorded yesterday exceeded 60° over the south of England and touched 66° at Lorient, 68° at Rochefort and Nice, 70° at Perpignan.

WIND

SW to W over the northern and eastern parts of England, and SW over the North Sea. On our southwest coasts, however, it is backing towards E. and blowing freshly at Pembroke.
The SW current is decreasing in strength generally.

WEATHER

Fair over the Continent and the northern and eastern parts of our Islands, but in the SW. it has become gloomy, and rain is falling again at Roche Point and Pembroke.
Bright Sunshine recorded yesterday amounted to 7·5 hrs at Aberdeen, and to between 3 and 4 hours on our northwest coast, but was much less over the southeast of England. In London there was only half an hour recorded.

SEA

Rather rough both in the far north and at Valencia, slight to smooth in the East and southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

All the disturbances in the north appear to be now passing away, but a new depression is advancing towards the Scilly Islands from the westward, and threatens the English coasts with rough rainy weather.

FORECASTS

For the 24 hours ending at NOON on 28th OCTOBER, 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Wind falling light, and perhaps shifting to the Eastward; fair.
1 SCOTLAND EAST	SW to SE winds; fair at first; then increasing, with rain.
2 ENGLAND N.E.	
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No 0
7 ENGLAND N.W.	SE winds; cloudy, rainy, colder.
8 ENGLAND S.W.	S and SE winds, strong; squally, much rain.
9 IRELAND NORTH	Wind backing to the Eastward and increasing; fair to rainy.
10 IRELAND SOUTH	E winds, fresh or strong; much rain.
WARNINGS	NONE ISSUED AT PRESENT.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.50	52	48	W	8	o	5
Sumburgh Head	29.37	51	47	W	6	bc	6
Stornoway	29.52	52	48	W	4	c	4
Aberdeen	29.64	55	48	SW	3	b	2
Shields	29.82	59	53	WSW	3	bc	2
Ardrossan	29.76	55	54	SW	4	cqp	3
Malin Head ...	29.72	52	50	WSW	5	bc	4
Belmullet	29.82	55	51	WSW	5	c	*
Holyhead	29.92	57	55	SW	3	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.93	58	55	SW	3	cg	5
Scilly	30.10	60	58	SW	4	c	3
Jersey	30.21	60	56	NW	4	o	3
Hurst Castle ...	30.11	60	59	WSW	5	c	3
Dungeness ...	30.07	61	58	WSW	5	o	4
North Foreland	30.08	61	55	WSW	5	o	3
London (Westminster)	30.06	62	57	WSW	3	o	*
Yarmouth ...	29.97	60	57	WSW	4	c	3
Rochefort ...	30.26	68	61	E	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair over the extreme southern and western parts of Continental Europe and over the eastern part of England, very changeable elsewhere, with showers in many places, snow at Kuopio. Rain falling later over Scandinavia and the northern and west[n] parts of the British Islands, but the amount large at Stornoway only, amount of cloud considerable over England.

Temperature rises somewhat over Great Britain. Morning readings highest 69° at Malta, 68° at Brindisi, 67° at Barcelona, and above 60° at many stations in southern Europe; 55° to 59° over the southern parts of England, and exceeding 50° in the south and east of Scotland. Lowest (1) 30° at Haparanda, 34° at Moscow, 35° at Kuopio, and 38° at Hernösand; 43° at Karlstad, 44° at Wick, and Christiansund; (2) 40° at Odessa, 43° at Cracow, and 44° at Limboy. Rising later to 60° and more over the eastern and southern counties of England, to 62° at Paris, 68° at Nice and 70° at Perpignan.

Wind very light and variable (mainly anticyclonic) over the southern countries of Europe and the Mediterranean, N' to SW over the more northern regions, and moderate to fresh in p. ce, but an E[3] breeze continuing to blow in the northwest of Norway, and extending to some parts of Sweden & Finland. No decided change in our Islands later.

Barometer in morning, highest 30·3 in: and more to 30·0 in: over the southern parts of Europe and the southern counties of England. Lowest below 29·2 in: to 29·3 in: over the Shetland Islands and west of Norway, and below 29·5 in: over the Gulf of Finland – the gradients being somewhat steep over the northern countries. Rising decidedly at the northern stations later, but inclined to fall a little in the southwest.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on *Friday, 28th October,* 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind.* Direc.	Force (0 to 12.)	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.69	31	Z	0	0	29.85	+.39	30	29	-2	Z	0	S	*	0	*	34	27	-
	Hernösand ...	29.71	35	Z	0	b	29.86	+.33	32	31	-3	W	2	bc	*	b	*	39	32	-
	Stockholm ...	29.81	44	WSW	2	bc	29.94	+.35	44	43	+2	WSW	2	o	*	bc	*	50	39	-
	Wisby	29.92	49	WNW	6	b	30.02	+.31	47	46	-1	WNW	4	b	*	b	*	48	45	-
	Karlstad ..	29.83	43	W	2	b	29.95	+.33	39	38	-4	W	2	f	*	b	*	*	*	-
	Bodö	29.55	39	E	4	c	29.65	+.24	37	34	0	E	4	b	1	c	*	39	34	-
	Christiansund ...	29.65	48	W	3	r	29.71	+.22	48	44	+1	W	4	c	4	r	*	48	45	0.67
	Skudesnaes ...	29.86	50	WSW	2	bc	29.89	+.18	51	50	0	SSW	4	m	3	b	*	54	48	*
	Færder (Christiania Fjord)	29.81	48	WSW	4	bc	29.93	+.28	45	43	-3	WSW	4	o	3	bc	*	50	45	-
	Skagen (The Scaw)	29.92	47	WNW	3	m	30.00	+.18	46	46	-2	WSW	2	m	0	m	*	52	45	-
	Fanö	30.05	50	WSW	3	c	30.03	+.10	51	51	+1	SSW	2	r	*	c	*	55	50	-
BRITISH ISLANDS.	Sumburgh Head	29.59	48	SW	4	o	29.68	+.15	48	46	-1	W	2	b	4	bc p, o	*	52	44	0.51
	Stornoway ..	29.63	59	W	3	r	29.66	+.07	43	42	-4	W	1	c	1	c, o, r	1.6	52	39	0.50
	Wick	29.64	50	WNW	2	b	29.71	+.10	45	44	-2	NW	1	b	1	b	*	55	41	-
	Nairn	29.74	48	W	1	b	29.76	+.07	40	39	-5	Z	0	b	0	b	*	56	38	-
	Aberdeen ...	29.79	49	SW	3	bc	29.81	+.04	42	41	-4	W	1	bc mw	1	bc	6.8	57	40	-
	Leith	29.84	50	WSW	1	o	29.80	.00	44	43	-5	SW	1	cm	*	o	*	56	43	-
	Shields	29.92	54	SW	2	m	29.84	-.04	51	50	+1	SW	2	op	2	c, m, r	*	60	48	0.06
	Spurn Head ...	29.96	55	S	3	o	29.88	-.07	53	52	-1	S	3	o	3	bc, op	*	61	52	0.01
	York	29.94	55	S	1	o	29.87	-.08	51	50	-1	S	2	c	*	c, s	0.0	58	49	-
	Loughborough ..	30.00	55	S	1	o	29.92	-.07	52	50	-1	SSE	2	c	*	od, c, o	*	56	50	0.01
	Ardrossan ...	29.84	53	SW	3	c	29.79	-.05	48	48	-4	NE	1	ofw	2	o, c	*	54	45	-
	Malin Head ...	29.82	50	SSW	3	cm	29.73	-.07	45	44	-4	SSW	3	b	2	c, cm	*	54	44	-
	Belmullet ...	29.88	50	WSW	1	b	29.76	-.16	49	47	-1	SSE	3	op	*	cp, b	*	57	45	0.03
	Donaghadee ...	29.89	52	SW	2	c	29.81	-.08	48	47	+3	WSW	3	c	1	c	*	57	43	-
	Liverpool (Bidston)	29.94	51	Z	0	o	29.84	-.12	52	50	0	SSE	2	bc	2	m, op	*	57	50	0.03
	Holyhead ...	29.92	51	SW	1	2gm	29.81	-.14	51	51	-3	E	1	dm	0	rgn, dm	*	55	49	0.29
	Parsonstown ...	29.91	50	Z	0	o	29.79	-.13	46	45	-3	Z	0	o	*	o, r	0.0	54	44	0.03
	Valencia ...	29.92	53	Z	0	o	29.78	-.15	46	45	-5	SW	1	c	3	ov, o	0.2	56	43	-
	Roche's Point ..	29.92	53	NNW	2	dp	29.80	-.15	50	49	-3	SSE	1	cdp	2	dp	*	55	45	0.1
	Pembroke (St. Ann's Hd.)	29.92	56	WSW	4	o	29.83	-.15	54	53	+1	SSW	4	o	4	o	0.0	57	53	0.2
	Scilly	29.93	57	SSW	3	c	?29.81	-.18	55	54	-2	SW	3	r	4	cp, c	1.0	60	53	0.12
	Prawle Point ...	30.01	56	SW	3	c	29.92	-.15	55	54	-1	S	3	c	2	c	*	57	54	-
	Jersey (St. Aubin's)	30.05	59	SE	3	bc	29.96	-.16	54	53	-4	SE	3	o	3	cg, om	*	62	52	-
	Hurst Castle ...	30.04	58	SW	1	c	29.95	-.13	59	57	+1	S	3	c	2	c	*	59	57	0.02
	Dungeness ...	30.06	58	SSW	3	c	29.99	-.09	54	53	-5	S	3	c	2	c	*	60	53	-
	North Foreland	30.08	57	S	2	o	30.00	-.09	51	50	-4	S	2	b	1	bc, o	*	63	50	-
	London (Brixton) ...	30.05	56	SSW	2	o	29.98	-.08	53	51	-2	S	2	c	*	o, c	0.0	61	48	-
	Oxford	30.02	54	S	2	o	29.94	-.11	53	51	-2	S	2	o	*	o	*	59	52	-
	Cambridge ...	30.04	57	SSW	2	o	29.96	-.08	52	51	-3	S	1	om	*	o	0.4	62	50	-
	Yarmouth ...	30.02	58	SW	3	c	29.97	-.03	55	53	-2	SW	3	b	3	c	*	60	51	-
GERMANY & HOLLAND.	Cuxhaven ...	30.04	54	WSW	2	o	30.07	+.09	51	50	-3	SSW	2	c	*	o	*	55	50	0.12
	Berlin	30.15	55	W	2	o	30.17	+.09	50	48	-5	WSW	2	b	*	o	*	59	50	-
	Wiesbaden ...	*	*	*	*	*	30.14	-.07	42	41	-10	S	1	c	*	*	*	59	41	-
	Munich... ..	30.23	46	SE	3	b	30.21	-.07	40	39	-1	E	1	b	*	b	*	50	39	-
	The Helder ...	30.05	56	SW	1	o	30.01	.00	44	44	-13	S	1	m	0	o	*	59	44	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.06	-.10	46	46	-7	SW	1	f	*	b	*	62	43	-
	Cape Gris Nez...	?	57	SW	1	bc	?	?	47	46	-11	S	2	f	1	bc	*	59	45	-
	Paris	30.12	51	ESE	2	bc	30.06	-.13	48	48	-1	SE	1	f	*	bc	*	60	48	-
	Brest	30.02	58	SSE	2	o	29.90	-.18	55	53	-2	SE	3	c	3	o	*	59	52	-
	Lorient... ...	30.03	55	S	2	c	29.96	-.16	50	50	-5	SE	4	m	4	c	*	64	50	-
FRANCE &	Rochefort ...	30.08	59	E	2	bc	29.99	-.13	54	52	+8	SE	2	o	*	bc	*	68	43	-
	Belfort	30.13	57	NE	2	b	30.13	-.09	49	47	+5	Z	0	m	*	b	*	67	41	-
	Lyons	30.13	58	SSE	1	b	30.12	-.12	50	50	+9	NE	1	b	*	b	*	64	41	-
	Nice	30.19	59	Z	0	b	30.18	-.02	59	58	+4	Z	0	f	0	b	*	68	52	-
	Perpignan ...	30.13	60	SE	2	c	30.07	-.11	60	59	+12	SE	2	bc	*	c	*	65	48	-
	Biarritz ...	29.99	67	E	2	b	29.90	-.15	63	57	+8	SSE	2	c	5	b	*	73	55	-
PENINSULA.	Corunna ...																*			
	Lisbon	29.99	64	S	1	o	29.92	-.15	62	61	+1	E	2	o	*	o	*	70	63	0.04
	Azores (P. Delgada)	30.20	59	N	4	bc	30.15	.00	59	53	-2	N	4	c	3	bc	*	66	54	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

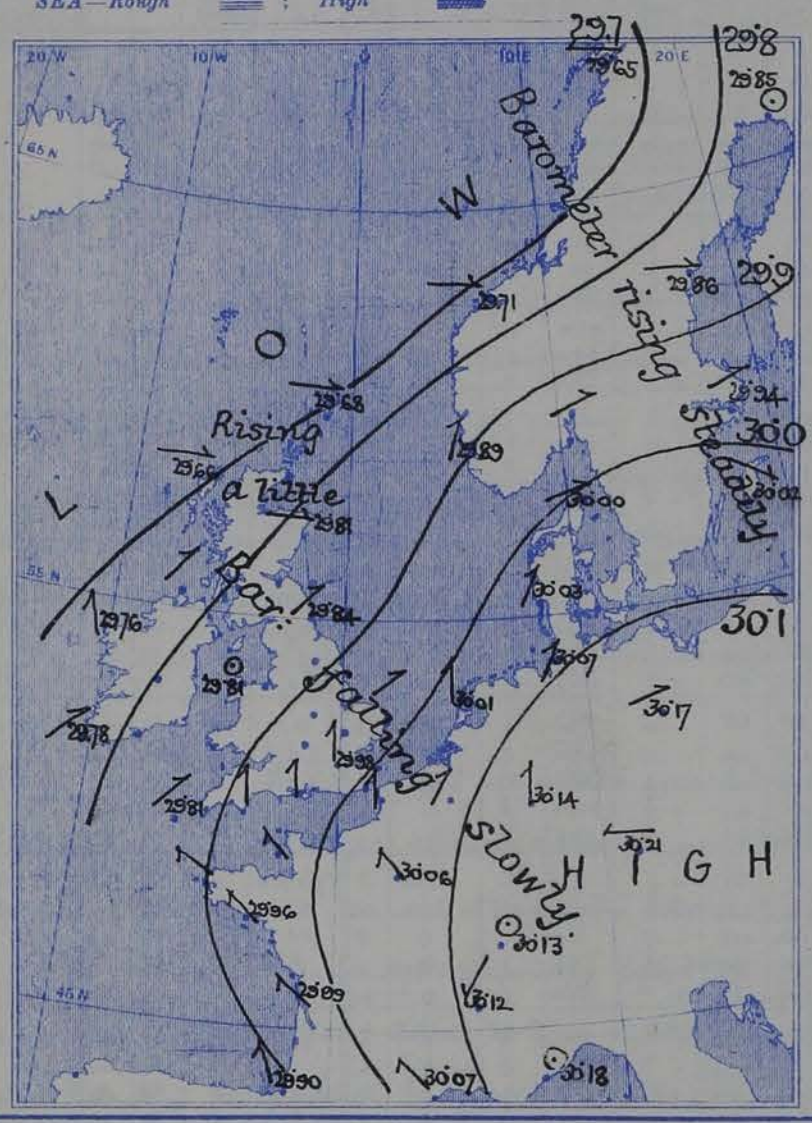
Bright Sunshine yesterday Southport 0.5 hrs;

WEATHER CHARTS

FOR Friday, 28th October, 1898

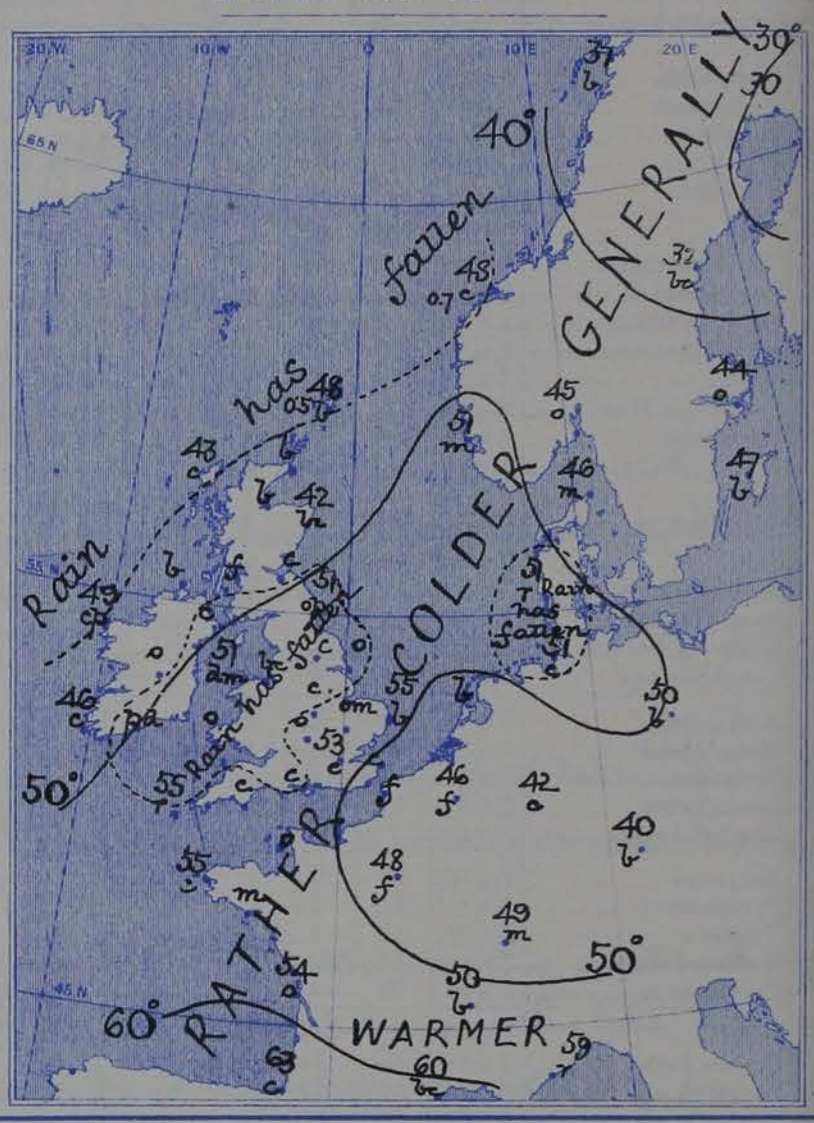
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; } Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL— { *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	–	–
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	–	–
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	–	–
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	–	–
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	–	–
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	–	–
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	–	–
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	–	–
Malin Head	29·798	48·2	46·1	52·4	45·6	–	–	–	–		–	–
Belmullet	29·846	49·4	46·4	53·9	46·0	–	–	–	–	5·18	–	–
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	–	–
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	–	
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	–	–
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	–	–
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	–	–
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	–	–
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	–	–
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	–	–
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1*	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	–	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 in. and upwards in an anticyclone over Germany and the eastern parts of France. Lowest, 29·7 in. and less, in a large area lying to the northward and northwestward of our Islands. Gradients slight. Barometer falling in most parts of Ireland, England, France, and the Netherlands, but rising elsewhere.

TEMPERATURE — Highest, 63° at Biarritz, 60° at Perpignan, 59° at Hurst Castle and Nice, and 55° at Scilly, Prawle Point, Yarmouth, and Brest. Lowest, (1) 30° at Haparanda, and 32° at Hernösand; (2) 40° at Nairn and 42° at Aberdeen; (3) 40° at Munich and 42° at Wiesbaden. During yesterday the thermometer rose to 60° or slightly above it in the east and south of England; at many of our western stations it did not exceed 55°.

WIND — Light to moderate from the SE^ly in France, and from the S^ly over Ireland, England, and the Netherlands. W^ly or SW^ly in Scotland and also over the greater part of Scandinavia, Denmark, and North Germany.

WEATHER — Cloudy or dull over Western Europe as a whole, with passing showers at some of our more western stations, rain at Paris and Nice, and snow at Haparanda; fog or mist is reported over the Netherlands and the northeast of France. Fine in the north and east of Scotland and also in Germany. Slight rain fell yesterday in several parts of Ireland and England, and larger quantities in the Shetlands and Hebrides, as well as at Christiansund. A lunar halo was seen at Malin Hd.

SEA — Moderate to smooth generally, but rather rough at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Low pressure systems are again beginning to approach our western coasts, but at present there are no signs of any serious disturbance. Freshening Southerly winds, and showers, are probable in the west, but in the east the weather is likely to remain fair for the present.

FORECASTS

For the 24 hours ending at NOON on 29TH OCTOBER, 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W^ly to S^ly winds, light or moderate; fine at first, showery later.
2 ENGLAND N.E.	S^ly winds, light or moderate; cloudy, local showers.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	S^ly winds, light or moderate; fair generally.
6 SCOTLAND WEST 7 ENGLAND N.W.	E^ly and SE^ly winds, light; dull, some rain.
8 ENGLAND S.W.	S^ly winds, moderate or fresh; cloudy, showery.
9 IRELAND NORTH 10 IRELAND SOUTH	S^ly winds, freshening; dull, some rain.

WARNINGS — NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR	THER. Dry	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.81	53	50	SSW	2	b	3
Sumburgh Head	29.88	50	48	WSW	3	bcq	5
Stornoway ...	29.62	52	49	WSW	4	o	4
Aberdeen ...	29.78	56	48	SW	3	bc	2
Shields ...	29.92	51	50	SW	2	c	2
Ardrossan ...	29.84	53	52	SW	4	o	3
Malin Head ...	29.82	53	50	SW	4	c	2
Belmullet ...	29.88	52	49	SW	4	cp	*
Holyhead ...	29.94	53	52	SW	1	gmr	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia ...	29.92	55	52	WSW	1	ov	5
Scilly ...	29.96	58	54	SSW	4	c	4
Jersey ...	30.06	62	55	S	3	c	8
Hurst Castle ...	30.06	59	56	SW	3	c	2
Dungeness ...	30.07	59	56	WSW	3	c	3
North Foreland	30.08	60	54	SW	3	bc	2
London (Westminster)	30.05	61	55	SW	3	o	*
Yarmouth ...	30.02	60	57	WSW	3	c	3
Rochefort ...	30.08	64	60	E	2	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over the greater part of western and southern Europe, but dull at many of our own western stations, with rain at Rochfort and Pembroke; rain falling also at Christiansund, and passing showers at Sumburgh Head. Fine in the south of Sweden; dull in Russia and Germany, with rain in several places, and snow at Uleaborg and Kuopio. Slight rain falling later in many parts of England and Ireland, and larger quantities in the Shetlands and Hebrides and also at Christiansund. Lunar halo seen at Malin Head.

Temperature fallen in most parts of western and southern Europe and also over Sweden and northern Russia. Morning readings highest 69° at Malta, 67° at Brindisi and Algiers, and 66° at Bilbao and Patras; above 60° at several of the Mediterranean and Spanish coast stations, and very little below it over the English Channel. Lowest (1) 32° at Archangel, and Haparanda; and 33° at Uleaborg and Kuopio; (2) 39° at Le Mans and 41° at Lyons and Munich; (3) 45° at Nairn and Donaghadee. Rising later to 60° or slightly above it in the east and south of England, exceeding 65° over the southern parts of France, and reaching 73° at Biarritz.

Wind light to moderate from the SW. or W. over northwestern Europe generally, but SE. at the mouth of the St. George's Channel, as well as in the west of France. N. or NW. in Finland; W. over the Baltic; SW. in the central and southern parts of Russia. Calm in Austria, N. in Italy, NE. in Greece and also over the Spanish Peninsula. Shifting later to the SW. at the mouth of the St. George's Channel; no important change occurring elsewhere.

Barometer highest 30·34 in. at Hermanstadt; 30·1 in. and upwards in an anticyclone covering the whole of Central and southern Europe. Lowest 29·3 in. and less in a well marked depression over Finland; 29·4 in. and less, in another disturbance off the west of Norway; 29·9 in. and less (apparently) in a small and shallow system lying off our extreme southwest coasts. No important change occurring during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 29th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.88	35	S	6	r	29.82	-.03	37	36	+7	WSW	2	0	*	r	*	37	27	0.20
	Hernösand ...	29.93	29	SE	0	f	29.95	+.09	26	25	-6	SE	0	bc	*	f	*	46	26	-
	Stockholm ...	30.02	44	SW	2	b	30.02	+.08	46	45	+2	S	2	0	*	bc	*	48	39	-
	Wisby	30.10	47	SW	4	r	30.02	.00	49	48	+2	SW	2	0	*	r	*	49	45	0.04
	Karlstad ...	30.00	46	SE	0	f	29.95	.00	47	46	+8	SE	0	f	*	f	*	*	*	-
	Bodö	29.67	41	ESE	4	r	29.69	+.04	45	43	+8	SW	6	0	3	r	*	45	32	0.32
	Christiansund ...	29.86	48	WSW	4	c	29.78	+.07	44	41	-4	ESE	2	0	3	c	*	50	43	0.08
	Skudesnaes ...	29.94	50	SE	0	c	29.78	-.11	51	51	0	S	6	r	4	c	*	52	48	*
	Faerder (Christiania Fjord)	29.98	48	SW	1	0	29.89	-.04	50	48	+5	S	2	f	2	0	*	50	45	0.28
	Skagen (The Scaw)	30.00	49	WSW	1	m	29.93	-.07	48	48	+2	S	2	m	0	m	*	50	46	0.08
	Fanö	30.04	48	SSW	2	c	29.91	-.12	48	47	-3	S	4	0	*	c	*	54	46	-
BRITISH ISLANDS.	Sumburgh Head	29.76	46	SE	0	c	29.58	-.10	45	44	-3	NE	1	r	3	b,c	*	53	44	0.15
	Stornoway ...	29.64	48	SSW	3	r	29.61	-.05	37	36	-6	SE	0	c	0	cp,r	3.8	51	34	0.30
	Wick	29.67	50	WNW	1	bc	29.59	-.12	40	39	-5	WNW	1	b	1	bc,r	*	54	38	0.30
	Nairn	29.74	47	SE	0	c	29.61	-.15	42	41	+2	SE	0	c	1	c	*	54	38	0.04
	Aberdeen ...	29.78	49	S	1	ogr	29.60	-.21	46	46	+4	WNW	3	ogr	2	c,ogr	1.7	52	41	0.16
	Leith	29.74	50	SE	0	r	29.57	-.23	50	50	+6	SE	0	f	*	r	*	51	43	0.24
	Shields	29.77	55	S	1	om	29.60	-.24	51	51	0	SSW	3	op	2	p,om,o	*	56	49	0.25
	Spurn Head ...	29.82	55	S	3	0	29.66	-.22	55	55	+2	SSW	4	0	3	c,o	*	59	50	-
	York	29.81	56	S	1	0	29.64	-.23	53	52	+2	S	2	op	*	c,o,p	1.9	60	48	0.05
	Loughborough ...	29.83	58	SSE	3	0	29.67	-.25	56	55	+4	SSE	2	og	*	bc,c,og	*	61	49	-
	Ardrossan ...	29.70	50	E	2	of	29.59	-.20	49	49	+1	SE	0	of	0	op,of	*	52	47	0.07
	Malin Head ...	29.69	48	SSW	2	cm	29.63	-.10	42	42	-3	SSW	2	bcm	1	c	*	50	41	-
	Belmullet ...	29.68	48	SSE	2	c	29.65	-.11	42	42	-7	ESE	1	b	*	bcp,c	*	54	40	0.04
	Donaghadee ...	29.71	50	SSW	2	0	29.64	-.17	48	47	0	WNW	3	c	1	o	*	51	46	0.02
	Liverpool (Bidston)	29.74	54	SE	4	0	29.62	-.22	53	52	+1	WSW	3	0	3	p	*	56	51	0.47
	Holyhead ...	29.70	54	S	2	mrq	29.64	-.17	52	52	+1	SW	1	cp	0	qmr	*	56	50	0.82
	Parsonstown ...	29.69	48	SE	0	c	29.65	-.14	38	38	-8	SE	0	b	*	o,c	0.0	51	38	-
	Valencia ...	29.64	49	S	2	bc	29.59	-.19	47	46	+1	SE	0	0	3	cp,bc	2.2	56	45	0.31
	Roche's Point ...	29.68	52	S	2	0	29.62	-.18	50	49	0	ENE	1	cpd	3	c,o	*	53	45	0.04
	Pembroke (St. Ann's Hd.)	29.69	54	SSE	2	r	29.66	-.17	54	53	0	SW	2	bcv	3	o,r	0.0	57	53	1.24
	Scilly	29.64	54	NNW	2	r	29.64	-.17	54	53	-1	?SSE	1	r	3	bl,r	0.0	56	51	1.05
	Prawle Point	29.76	57	SE	4	c	29.70	-.22	54	53	-1	NSW	2	0	2	cp	*	57	53	0.03
	Jersey (St. Aubin's)	29.85	58	ESE	3	cm	29.74	-.22	59	58	+5	SSE	5	odmp	4	c,cm	*	59	52	0.01
	Hurst Castle ...	29.85	55	ESE	4	0	29.70	-.25	60	59	+1	SSW	3	cm	2	c,o	*	60	55	-
	Dungeness ...	29.89	56	SSE	2	c	29.77	-.22	59	57	+5	S	4	bc	3	c	*	59	53	-
	North Foreland	29.92	54	SSE	3	0	29.78	-.22	58	56	+7	SSE	2	cw	2	c,o	*	58	50	-
	London (Brixton) ...	29.88	54	SSE	3	0	29.75	-.23	58	56	+5	S	2	od	*	bc,op,bc	3.6	63	51	0.01
	Oxford	29.83	52	SSE	3	0	29.70	-.24	57	56	+4	S	3	or	*	c,o	*	60	51	-
	Cambridge ...	29.89	53	SSE	1	cm	29.73	-.23	55	55	+3	SSW	2	og	*	c,pm	2.4	62	49	-
	Yarmouth ...	29.90	55	S	4	bc	29.75	-.22	57	56	+2	SSW	3	cw	3	b,bc	*	58	53	-
GERMANY & HOLLAND.	Cuxhaven ...	30.01	54	S	1	0	29.93	-.14	46	45	-5	S	1	bc	*	0	*	57	45	-
	Berlin	30.08	53	SE	1	b	30.05	-.12	44	44	-6	SE	0	f	*	b	*	59	43	-
	Wiesbaden ...	*	*	*	*	*	30.08	-.06	47	46	+5	SE	0	0	*	*	*	50	41	-
	Munich... ...	30.14	47	SE	0	b	30.17	-.04	41	41	+1	E	2	f	*	b	*	59	39	-
	The Helder ...	29.95	50	SE	0	m	29.82	-.19	49	48	+5	S	1	c	0	m	*	57	44	-
BELGIUM.	Brussels ...	*	*	*	*	*	29.90	-.16	51	50	+5	SSE	1	bc	*	bc	*	57	45	-
	Cape Gris Nez ...	?	54	S	1	m	?	?	56	54	+9	S	3	m	3	m	*	56	47	-
	Paris	29.99	56	SSE	2	bc	29.93	-.13	50	49	+2	SSE	1	bc	*	bc	*	58	48	-
	Brest	29.76	59	SE	3	0	29.71	-.19	57	56	+2	SSW	2	0	2	0	*	59	52	-
	Lorient... ...	29.84	59	SE	4	m	29.76	-.20	59	59	+9	SSW	3	r	5	m	*	61	48	0.04
FRANCE &	Rochefort ...	29.93	62	SSE	2	c	29.88	-.11	57	56	+3	S	4	c	*	c	*	70	50	-
	Belfort	30.02	57	SE	0	b	30.06	-.07	52	50	+3	N	1	0	*	b	*	66	44	-
	Lyons	30.07	61	S	2	b	30.06	-.06	58	57	+8	S	3	b	*	b	*	69	50	-
	Nice	30.17	59	E	2	b	30.18	.00	54	51	-5	E	2	bc	2	b	*	70	54	-
	Perpignan ...	30.03	61	SE	2	b	30.06	-.01	50	50	-10	SE	0	b	*	b	*	72	49	-
	Biarritz ...	29.89	68	S	4	0	29.88	-.02	67	58	+4	SSE	3	c	3	0	*	73	63	-
PENINSULA.	Corunna ...																*			
	Lisbon	29.96	63	SE	0	0	29.91	-.01	60	59	-2	SE	0	0	*	0	*	68	59	
	Azores (P. Delgada)	30.13	62	N	4	c	30.12	-.03	60	58	+1	N	3	c	3	c	*	64	57	0.24

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

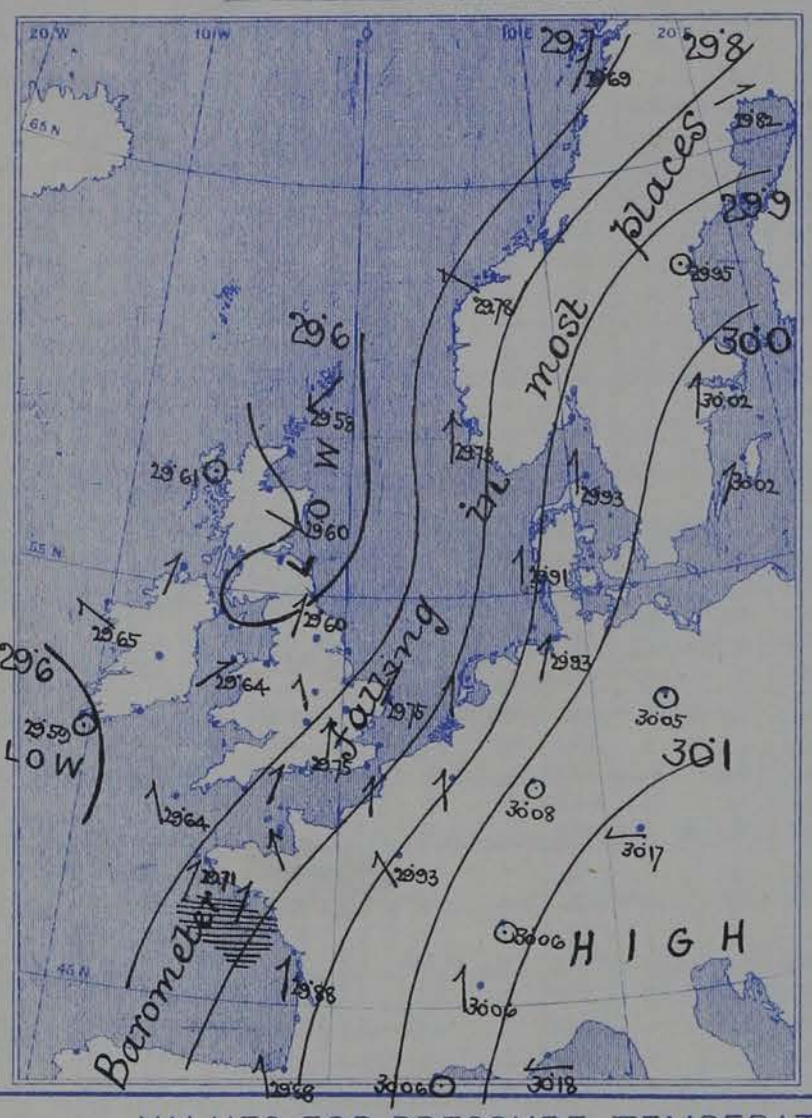
Bright Sunshine yesterday Southport 0.9 hrs;

WEATHER CHARTS

FOR Saturday, 29th October, 1898

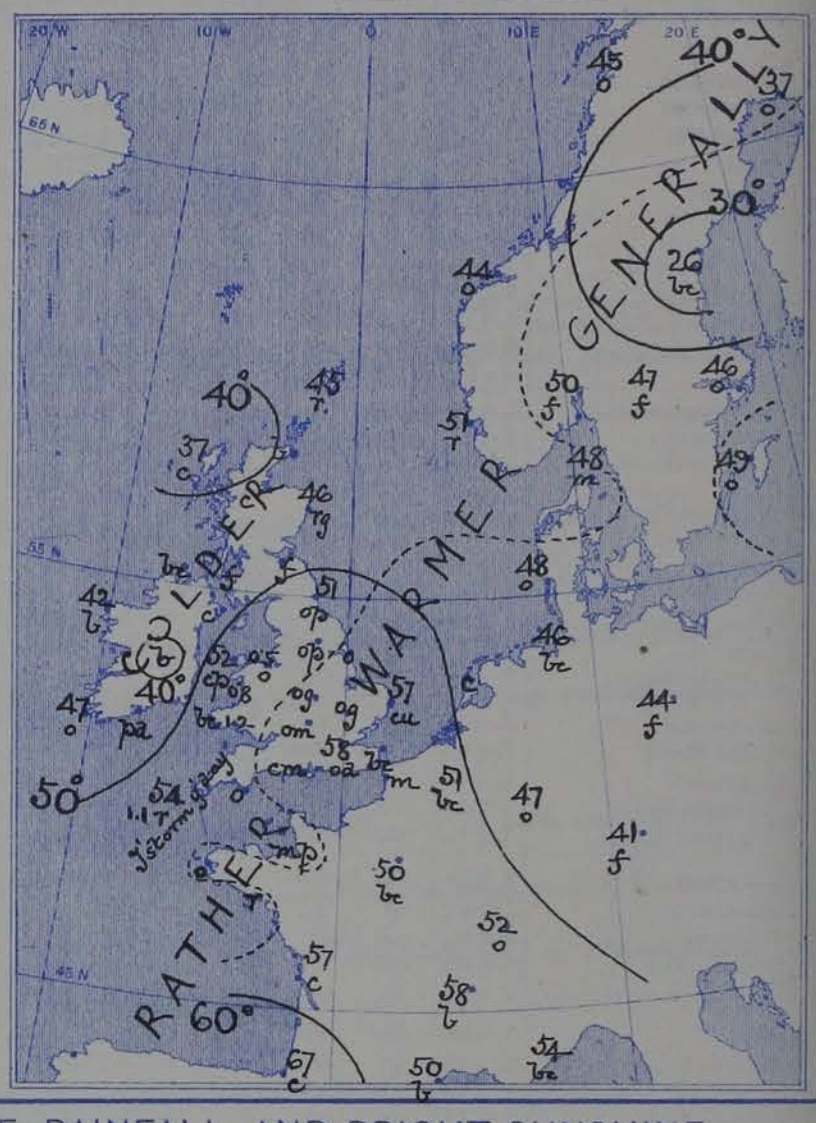
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1+	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and upwards over South Germany and the southeast of France.
Lowest, 29·6 in: and less, in a complex depression lying off the east of Scotland and also in another disturbance off the southwest of Ireland.
Gradients slight. Barometer falling a little in most places.

TEMPERATURE

Highest (1) 67° at Biarritz and 60° at Lisbon; (2) 60° at Hunt Carlo, and 59° at Jersey, Dungeness and Lorient.
Lowest, (1) 26° at Hernösand and 37° at Haparanda; (2) 37° at Stornoway and 38° at Parsontown; (3) 41° at Munich and 44° at Berlin.
During yesterday the thermometer rose to 60° or slightly above it at several of the English stations. In Ireland and Scotland the daily maxima were as a rule below 55°.

WIND

Light to moderate from the S. over England and the western parts of the Continent generally.
Calm in the south of Ireland and the west and south of Scotland; light from the NE. in the northeast of Scotland.

WEATHER

Cloudy or dull over Western Europe as a whole, with rain or passing showers in many places, and fog in some parts of Germany and the south of Scandinavia.
Fine in the northern and central parts of Ireland, as well as at many of the French stations.
Rain fell yesterday at most of our western and northern stations, the largest amounts being 1·2 in: at Pembroke, 1·1 in: at Scilly, and 0·8 in: at Holyhead. Thunder and lightning occurred at Scilly, and a lunar halo was seen at Oxford.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions which are now appearing over our Islands are extremely shallow, but the weather seems likely to remain in a very changeable condition, with rain in most Districts.

FORECASTS

For the 24 hours ending at NOON on 30TH OCTOBER, 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Calms or Variable airs; fair generally, but some fog or mist.
2 ENGLAND N.E.	S. and SW. winds, light; cloudy, showery.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	S. winds, light or moderate; mild, changeable, some showers.
6 SCOTLAND WEST	Same as Nos. 0 and 1.
7 ENGLAND N.W.	SW. to SE. winds, light or moderate; fair at first, some rain later.
8 ENGLAND S.W.	S. and SE. winds, moderate; changeable, some rain.
9 IRELAND NORTH	Same as No. 7.
10 IRELAND SOUTH	E. and SE. winds, moderate; dull, some rain.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.93	50	48	SSW	6	c	4	Valencia	29.68	55	51	S	2	cp	4
Sumburgh Head	29.74	52	48	SW	2	b	4	Scilly	29.69	54	53	E	1	o p	4
Stornoway	29.69	50	48	WSW	3	cp	3	Jersey	29.90	56	54	ESE	4	c	3
Aberdeen	29.79	50	48	SSE	1	oq	1	Hurst Castle ...	29.88	59	57	ESE	4	c	2
Shields	29.81	53	52	SE	1	cm	2	Dungeness ...	29.93	54	52	SSE	1	c	3
Ardrossan	29.75	50	50	ESE	2	o	2	North Foreland	29.94	55	52	SSE	2	c	1
Malin Head ...	29.70	50	48	SSW	2	c	2	London (Westminster)	29.90	61	55	S	2	bc	#
Belmullet	29.68	53	49	S	8	bqp	*	Yarmouth ...	29.92	58	55	S	8	b	3
Holyhead	29.75	53	50	S	4	gmr	3.	Rochefort ...	29.95	60	64	S	8	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over Western Europe generally, with passing showers at some of our own western stations and rain at Paris, as well as at Nice and Toulon. Fine in the north and east of Scotland and also over Italy and the Mediterranean. Foggy in many parts of northern and central Europe; dull in Russia, with rain at Moscow; snow reported at Haparanda. Rain falling later in the west and north of our Islands generally,—heavily in Wales and the southwest of England. Thunder and lightning occurring at Scilly; lunar halo seen at Oxford

Temperature fallen in most countries, but risen over France and the Spanish Peninsula. Morning readings highest 73° at Nemours and Algiers, 68° at Palermo and Oran and 67° at Sfax; above 60° at most of the Mediterranean and Spanish coast stations. Lowest (1) 23° at Archangel and 30° at Haparanda, Ulealeaborg and Kuopio; (2) 40° at Nairn and 42° at Aberdeen; (3) 40° at Munich and 41° at Prague. Daily maxima below 55° at most of our own western and northern stations, but thermometer rising to 60° or slightly above it over the inland parts of England; exceeding 70° in the south of France and reaching 73° at Biarritz.

Wind light to moderate from the SE^ly in France and from the S^ly over Ireland, England, and the Netherlands, light from the W^ly in the north of Scotland. W^ly or SW^ly over the greater part of Scandinavia, Denmark, and North Germany; NW^ly in Russia. Calm in Austria and also in the extreme south of France; variable in Italy; E^ly or NE^ly over the Spanish Peninsula. Subsequently backing to the SE^ly in the south of England, no important change occurring elsewhere.

Barometer highest 30·35 in: at Hermanstadt; 30·1 in: and upwards in an anticyclone embracing the greater part of Central and southern Europe. Lowest 29·6 in: and less, in a depression over Central Russia; 29·7 in: and less, in a large shallow area lying to the northward and northwestward of our Islands. Small depression appearing later near the mouth of the English Channel; barometer falling over Western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 30th October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.80	38	Z	0	0	29.49	−.33	39	39	+ 2	SSE	2	c	*	0	*	39	32	0.35
	Hernösand ...	29.75	36	Z	0	f	29.46	−.49	45	44	+ 19	SSE	6	0	*	f	*	45	23	0.32
	Stockholm ...	29.86	47	Z	0	f	29.64	−.38	47	46	+ 1	S	2	f	*	f	*	52	39	—
	Wisby	29.88	48	S	4	c	29.71	−.31	47	46	− 2	SSW	4	0	*	fc	*	52	43	—
	Karlstad ...	29.73	50	S	2	0	29.55	−.40	50	49	+ 3	Z	0	0	*	0.s	*	*	*	—
	Bodö	29.63	41	E	2	b	29.41	−.28	41	39	− 4	ENE	4	0	1	b	*	48	36	0.12
	Christiansund ...	29.43	45	SW	3	r	29.46	−.32	45	44	+ 1	WSW	3	r	3	r	*	46	45	0.43
	Skudesnaes ...	29.54	52	S	8	0	29.36	−.42	52	51	+ 1	SE	2	f	3	r.0	*	52	48	*
	Færder (Christiania Fjord)	29.68	48	SSE	4	f	29.49	−.40	49	49	− 1	SSE	4	f	2	f	*	50	48	0.05
	Skagen (The Scaw)	29.69	50	SSE	3	m	29.51	−.42	49	49	+ 1	SSW	3	f	0	m	*	52	48	—
	Fanö	29.69	51	S	3	c	29.46	−.45	48	47	0	S	4	bc	*	c	*	54	48	—
BRITISH ISLANDS	Sumburgh Head	29.48	43	Z	0	c	29.28	−.30	47	45	+ 2	ENE	3	c	4	c	*	47	39	0.03
	Stornoway ...	29.47	45	Z	0	b	29.16	−.45	48	42	+ 6	S	3	0	3	bc.b	5.4	55	35	0.03
	Wick	29.49	40	NW	1	0	29.19	−.40	49	47	+ 9	SE	4	ow	2	ow	*	54	32	—
	Nairn	29.49	41	E	1	f	29.7	−.44	43	43	+ 1	Z	0	r	1	f	*	50	34	0.02
	Aberdeen ...	29.51	47	NW	1	0	29.11	−.49	49	48	+ 3	NE	7	omgq	6	cg.0	0.0	50	45	0.19
	Leith	29.49	49	Z	0	0	29.04	−.53	50	49	0	N	2	r	*	0	*	51	46	0.24
	Shields	29.52	52	Z	0	bem	29.00	−.60	50	50	− 1	WSW	3	r	2	dp.o.bem	*	55	49	0.33
	Spurn Head ...	29.51	51	SSE	4	f	29.11	−.55	52	51	− 3	SW	4	0	4	f.rq	*	58	51	0.50
	York	29.52	53	S	1	c	29.11	−.53	52	50	− 1	SW	2	0	*	e.r	0.0	59	50	0.39
	Loughborough ...	29.52	35	S	1	0	29.21	−.46	49	47	− 7	SW	4	bcq	*	c.or.cq	*	63	49	0.52
	Ardrossan ...	29.47	47	Z	0	bem	29.06	−.53	49	49	0	NNE	2	rm	1	bem	*	56	42	0.13
	Malin Head ...	29.45	47	S	1	bm	29.09	−.54	46	45	+ 4	S	1	cgm	1	bm	*	53	42	—
	Belmullet ...	29.47	48	SSE	2	bc	29.09	−.56	46	44	+ 4	ESE	2	r	*	b.bc	*	56	40	0.03
	Donaghadee ...	29.47	50	SSE	3	c	29.09	−.55	48	48	0	WNW	3	0	1	c	*	55	46	0.83
	Liverpool (Bidston)	29.46	53	ENE	1	c	29.17	−.45	50	48	− 3	WSW	3	bc	2	c.p	*	55	49	0.17
	Holyhead ...	29.45	52	E	1	rgm	29.18	−.46	50	48	− 2	WSW	4	c	3	cp.rgm	*	56	47	0.28
	Parsonstown ...	29.44	45	Z	0	b	29.12	−.53	45	43	+ 7	SE	1	or	*	b	6.6	54	37	0.01
	Valencia ...	29.45	49	WSW	1	bem	29.12	−.47	53	49	+ 6	W	5	c	5	c.bem	3.7	54	41	0.40
	Roche's Point ..	29.42	48	ESE	2	bc	29.10	−.52	54	54	+ 4	SSW	7	r	5	d.bc	*	54	46	0.35
	Pembroke (St. Ann's Hd.)	29.40	53	NNW	1	c	29.23	−.43	54	51	0	SW	6	cq	5	c	0.1	56	50	1.26
	Scilly	29.42	53	SSW	2	cp	29.31	−.33	54	53	0	SSW	5	omp	4	e.cp	0.9	58	49	0.41
	Prawle Point ...	29.45	53	SW	4	0	29.39	−.31	52	50	− 2	SW	6	c	5	op	*	57	50	0.14
	Jersey (St. Aubin's)	29.53	60	SSE	5	r	29.32	−.22	55	51	− 4	SW	5	bc	4	orm	*	61	51	0.73
	Hurst Castle ...	29.50	57	S	3	cp	29.39	−.31	53	50	− 7	WSW	5	bc	3	rm.p	*	60	50	1.08
	Dungeness ...	29.61	60	SSW	3	cp	29.36	−.41	52	50	− 7	WSW	6	c	6	e.cp.thrq	*	61	40	0.48
	North Foreland	29.63	58	SSE	3	c	29.35	−.43	51	48	− 7	SW	4	bc	2	c	*	60	50	0.41
	London (Brixton) ...	29.55	57	SE	3	bc	29.36	−.39	50	47	− 8	SW	4	br	*	or	0.0	61	47	0.81
	Oxford	29.41	56	S	3	r	29.32	−.38	48	46	− 9	SSW	3	bc	*	o.r	*	61	47	1.46
	Cambridge ...	29.56	56	SSW	3	0	29.28	−.45	49	48	− 6	SW	5	b	*	orm	0.0	61	47	0.57
	Yarmouth ...	29.59	57	SSE	3	od	29.24	−.51	51	50	− 6	SSW	5	c	4	c.od	*	60	49	0.35
GERMANY & HOLLAND	Cuxhaven ...	29.79	56	S	3	b	29.46	−.47	49	48	+ 3	S	4	c	*	b	*	59	46	—
	Berlin	29.92	52	SE	3	c	29.73	−.32	43	42	− 1	SE	2	b	*	c	*	59	41	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich... ..	30.04	42	E	2	b	29.85	−.32	39	39	− 2	E	1	f	*	b	*	50	39	—
	The Helder ...	29.66	53	S	1	m	29.28	−.54	54	53	+ 5	SW	5	r	3	m	*	64	49	0.12
BELGIUM	Brussels ...	*	*	*	*	*	29.49	−.41	51	48	0	SSW	6	0	*	0	*	66	50	0.08
	Cape Gris Nez...	?	61	S	3	c	?	?	52	50	− 4	W	7	r	7	c	*	63	48	1.26
	Paris	29.71	63	SE	3	bc	29.62	−.31	51	49	+ 1	SW	5	c	*	bc	*	68	50	0.24
	Brest	29.50	53	W	3	0	29.52	−.19	55	50	− 2	WSW	4	c	4	0	*	61	48	0.08
	Lorient... ...	29.55	55	WSW	4	?	29.60	−.16	55	53	− 4	W	5	c	5	?	*	61	50	0.83
FRANCE	Rochefort ...	29.67	64	SW	5	r	29.76	−.12	57	56	0	W	6	c	*	rq	*	70	50	0.83
	Belfort	29.89	58	N	2	b	29.83	−.23	51	50	− 1	W	6	r	*	b	*	69	47	0.04
	Lyons	29.91	61	S	3	bc	29.88	−.18	55	55	− 3	S	1	c	*	bc	*	67	55	0.32
	Nice	30.11	59	S	1	0	30.04	−.14	56	53	+ 2	Z	0	c	1	0	*	68	52	—
	Perpignan ...	29.91	66	S	3	0	29.88	−.18	55	53	+ 5	SW	2	0	*	0	*	72	50	—
	Biarritz ...	29.72	69	S	4	0	29.85	−.03	58	56	− 9	S	3	0	3	0	*	72	55	0.20
PENINSULA	Corunna ...																*			
	Lisbon	29.92	60	NNE	4	0	30.04	+.13	59	54	− 1	SW	1	bc	*	0	*	66	55	0.28
	Azores (P. Delgada)	30.17	61	NW	3	0	30.11	−.01	63	57	+ 3	NW	3	0	2	0	*	66	59	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

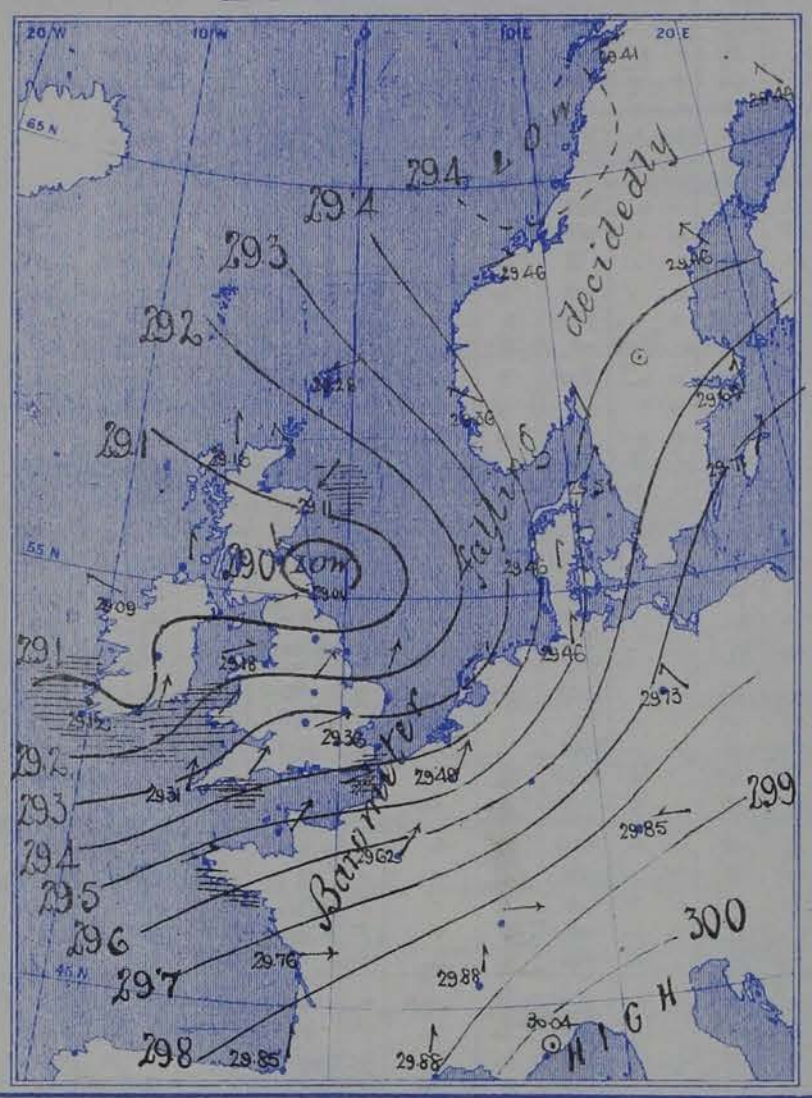
Bright Sunshine yesterday Southport 1.4 hrs;

WEATHER CHARTS

FOR Sunday, 30th October, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1880	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·0 in: and more over the extreme southeast of France and north of Italy, and exceeding 29·7 in: over the southern half of France and the greater part of Germany and the Baltic; (2) 29·4 in: to 29·5 in: over Lapland.
Lowest, (1) Below 29·0 in: in a depression off the northwest of Ireland, and in a small but well marked secondary off the southeast coast of Scotland, and below 29·1 in: in another secondary over the south of Ireland.
Gradient rather steep for S to SW winds over the southern parts of our Islands, the north of France, northwest of Germany, and the North Sea, moderate for E to S winds in the north of Scotland, very variable over Ireland and the north of England. Barometer rising at the southern stations falling in the north.

TEMPERATURE

Highest, 59° at Lisbon, 58° at Biarritz, and 57° to 55° along the west and northwest coasts of France; 53° to 52° along the south coast of England
Lowest, (1) 39° at Haparanda, 41° at Bodö, 43° at Bergen and Nairn; (2) 39° at Munich, 43° at Berlin.
It had touched 60° to 61° over the southern counties during the preceding 24 hours, 68° at Paris and Nice, and 72° at Perpignan and Biarritz.
In London the maximum occurred at night.

WIND

W to SW fresh to very strong over England, France and Holland, S in Denmark, E (NE to SE) in the north of Scotland; very variable both in force and direction over Ireland and the south of Scotland.
It has varied greatly over the whole Kingdom during the preceding 24 hours, and a very local, but severe whirlwind passed over parts of Camberwell (London S) at 9·30 pm.

WEATHER

In a very unsettled condition throughout the British Islands, and rain falling at many of our northern and western stations
Large quantities of rain had fallen over France, England, and Ireland, but a temporary clearance had ensued over the southern half of England; thunder and lightning had occurred over our southeastern counties.
No Bright Sunshine was recorded yesterday at Aberdeen, York, London, and Cambridge, but was as much as 5·4 hrs at Shoreham, and 6·6 hrs at Valencia

SEA

Rough on our west and southwest coasts, high at Cape Gris Nez, rough at Aberdeen

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 31st Oct: 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH	NONE ISSUED.	↓ 6 SCOTLAND WEST	NONE ISSUED.
↓ 1 SCOTLAND EAST		↓ 7 ENGLAND N.W.	
↓ 2 ENGLAND N.E.		↓ 8 ENGLAND S.W.	
↓ 3 ENGLAND EAST		↓ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		↓ 10 IRELAND SOUTH	
↓ 5 ENGLAND SOUTH		WARNINGS	At 9·35 am to all coasts 'Hoist South Cone'

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.67	51	50	S	4	r	4
Sumburgh Head	29.51	47	46	NE	1	c	3
Stornoway	29.52	55	51	2	0	bc	0
Aberdeen	29.55	48	47	NW	2	og	2
Shields	29.57	55	54	SSW	2	o	2
Ardrossan	29.54	54	52	W	1	b.m	0
Malin Head ...	29.53	53	50	SSW	2	b	1
Belmullet	29.56	56	52	S	1	b	*
Holyhead	29.57	55	54	SSW	1	cp	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.51	53	49	2	0	cv	4
Scilly	29.49	57	56	SSW	3	c	3
Jersey	29.66	60	59	SE	4	o	4
Hurst Castle ...	29.63	59	58	S	4	rm	3
Dungeness ...	29.69	60	59	SSW	3	c	2
North Foreland	29.71	60	57	SSE	4	o	3
London (Westminster)	29.66	60	58	SSE	3	org	*
Yarmouth ...	29.68	60	57	SSW	3	c	2
Rochefort ...	29.82	70	63	S	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over many parts of France, Germany, southeastern Europe, the Mediterranean, and temporarily fine over the northern half of Ireland; dull, damp and unsettled over England, foggy at Leith. Much rain later over France, Ireland, and England, thunder and lightning over our southeastern counties.

Temperature rises over France and Great Britain. Morning readings highest 75° at Algiers, 68° at Malta, and exceeding 60° over the eastern and southern parts of the Mediterranean generally, 59° at Lorient, Jersey, and Dungeness, 57° at Oxford, 53° at York. Lowest (1) 26° at Hammerfest, 32° at Archangel, Kropfio, St Petersburg, and Moscow, 44° at Riga; (2) 37° at Stornoway, 38° at Kenmantown. Rising later to 50° and more in Scotland, to 60° or 61° over our southern counties, to 68° at Paris, and to 72° in the southwest of France.

Wind S^r over France, England, the North Sea, and the greater part of Denmark and Scandinavia, very light and variable elsewhere—especially over Ireland and Scotland. Increasing greatly in strength from various directions later, both over France and our Islands, and blowing a moderate to fresh gale in places. [A local severe whirlwind experienced in some parts of Lambeth—south London].

Barometer highest 30·3 in. in the south of Russia, and exceeding 30·0 in. all over the Mediterranean, Central Europe, the Baltic and north of Russia. Lowest, Below 29·7 in. in a large depression over Central Russia, and below 29·6 in. over the south of Scotland and off the southwest of Ireland. Distribution very irregular over the British Islands. Falling fast later all over the United Kingdom—especially in the southwest, as a small but well-marked depression approached Pembroke from the southwestward rapidly.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 31st October, 1898.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.23	37	S	2	0	29.27	-.22	32	32	-7	2	0	f	*	0	*	41	30	0.44
	Hernösand ...	29.40	42	SSW	2	c	29.39	-.07	38	37	-7	W	2	r	*	c	*	46	34	0.08
	Stockholm ...	29.49	46	Z	0	f	29.44	-.20	46	45	-1	SW	2	bc	*	f	*	50	41	0.04
	Wisby	29.57	48	S	4	0	29.59	-.12	47	46	0	S	4	c	*	0	*	50	45	-
	Karlstad ...	29.39	49	SSE	2	r	29.35	-.20	48	47	-2	S	4	r	*	r	*	*	*	0.12
	Bodö	29.41	38	E	2	b	29.46	+.05	36	34	-5	E	2	b	1	b	*	41	34	-
	Christiansund ...	29.39	43	ESE	4	b	29.17	-.29	44	42	-1	ESE	3	0	3	b	*	46	41	0.20
	Skudesnaes ...	29.12	53	SSE	4	m	29.13	-.23	51	50	-1	SSW	7	0	4	r.m	*	54	48	*
	Færder (Christiania Fjord)	29.30	49	SSE	4	r	29.26	-.23	49	49	0	SSW	4	r	4	r	*	49	48	0.51
	Skagen (The Scaw)	29.32	50	SSW	5	r	29.34	-.17	50	49	+1	SW	4	0	1	r	*	52	49	0.32
	Fanö	29.42	51	SSW	6	c	29.42	-.04	51	49	+3	SSW	5	b	*	c	*	52	49	0.12
BRITISH ISLANDS	Sumburgh Head	28.97	46	NE	6	r	28.82	-.46	49	48	+2	ESE	5	0	6	r	*	50	46	0.55
	Stornoway ...	29.04	49	ESE	2	0	29.13	-.03	46	45	+3	WNW	5	r	4	0	0.0	50	40	0.08
	Wick	28.87	50	N	4	r	28.95	-.24	47	45	-2	N	8	ou	5	r	*	51	45	0.80
	Nairn	28.96	46	NE	2	r	29.07	-.10	48	46	+5	W	1	r	1	r	*	48	41	0.80
	Aberdeen ...	28.91	48	W	5	ogrq	29.10	-.01	48	45	-1	WSW	3	og	3	ogqr	0.0	51	45	0.60
	Leith	28.99	50	WSW	2	r	29.17	+.13	49	47	-1	WSW	3	0	*	r	*	51	46	0.36
	Shields	29.06	50	SSW	3	op	29.22	+.22	49	48	-1	SW	3	0	2	op	*	55	46	0.09
	Spurn Head ...	29.14	53	S	5	r	29.37	+.26	51	49	-1	SSW	5	c	4	c.r	*	55	48	0.01
	York	29.13	51	S	2	r	29.35	+.24	49	47	-3	WSW	3	r	*	c.r.c	2.8	56	47	0.05
	Loughborough ...	29.21	52	SW	5	b	29.50	+.29	46	44	-3	WSW	4	b	*	c.op.bq	*	57	46	0.04
	Ardrossan ...	29.00	51	SSW	3	0	29.30	+.24	49	48	0	WNW	6	cqp	4	0	*	51	48	0.22
	Malin Head ...	29.01	48	SW	2	cq	29.36	+.27	48	46	+2	WSW	5	cq	4	c.r	*	51	44	0.17
	Belmullet ...	29.13	50	NW	5	r	29.56	+.47	48	44	+2	NW	3	r	*	o.r	*	52	42	0.32
	Donaghadee ...	29.02	49	WSW	2	r	29.40	+.31	45	43	-3	WNW	5	b	3	r	*	54	44	0.27
	Liverpool (Bidston)	29.12	50	SSW	3	c	29.43	+.26	47	46	-3	WSW	7	r	6	c.mp	*	55	46	0.21
	Holyhead ...	29.07	50	WSW	6	cqpu	29.49	+.31	48	45	-2	W	7	cq	5	cqp	*	55	45	0.10
	Parsonstown ...	29.18	47	WSW	2	b	29.60	+.48	40	39	-5	Z	0	b	*	or.b	2.3	53	39	0.10
	Valencia ...	29.34	50	W	7	cpu	29.67	+.55	50	46	-3	WNW	3	cp	5	cp	3.8	54	46	0.30
	Roche's Point ..	29.31	49	W	4	b	29.66	+.56	47	44	-7	WNW	3	b	3	p.b	*	54	44	0.15
	Pembroke (St. Ann's Hd.)	29.25	54	W	7	c	29.59	+.36	51	47	-3	NNW	5	bcq	5	c	3.4	55	50	0.12
	Scilly	29.39	55	WNW	6	cp	29.68	+.37	53	49	-1	NW	4	cp	5	cp	5.0	58	49	0.28
	Prawle Point ...	29.40	54	WSW	7	c	29.67	+.28	50	48	-2	WNW	4	bc	3	cqp	*	56	48	0.15
	Jersey (St. Aubin's)	29.47	56	WSW	6	bc	29.71	+.19	55	52	0	W	5	bc	4	cqr	*	57	51	0.64
	Hurst Castle ...	29.40	55	WSW	5	bc	29.64	+.25	52	52	-1	W	4	bc	3	bc	*	57	52	0.20
	Dungeness ...	29.40	55	SSW	8	rq	29.61	+.25	54	51	+2	WSW	4	c	4	cqr	*	58	51	0.24
	North Foreland	29.41	55	S	5	r	29.58	+.23	50	47	-1	WSW	3	bp	2	c.r	*	57	48	0.05
	London (Brixton) ...	29.36	53	WSW	4	bc	29.61	+.25	48	46	-2	SW	3	b	*	o.rq.br	4.2	56	46	0.29
	Oxford	29.36	50	SW	4	b	29.59	+.27	47	45	-1	SW	3	b	*	bc.p.b	*	55	46	0.03
	Cambridge ...	29.31	53	SW	5	o	29.55	+.27	47	46	-2	SW	4	b	*	bc.qp	6.5	58	45	0.04
	Yarmouth ...	29.34	54	SSW	6	cq	29.49	+.25	49	47	-2	SW	4	b	3	c	*	55	46	0.01
GERMANY & HOLLAND	Cuxhaven ...	29.50	50	SW	5	b	29.54	+.08	50	49	+1	SW	4	b	*	b	*	55	48	0.04
	Berlin	29.74	51	SW	3	bc	29.77	+.04	48	46	+5	WSW	3	bc	*	bc	*	57	43	-
	Wiesbaden ...	*	*	*	*	*	29.82		44	43		SW	1	c	*	*	*	57	44	-
	Munich	29.93	50	Z	0	c	29.92	+.07	48	47	+9	S	2	c	*	c	*	59	39	-
	The Helder ...	29.42	54	SW	6	c	29.52	+.24	56	50	+2	SW	6	bc	6	c	*	57	50	0.24
BELGIUM.	Brussels ..	*	*	*	*	*	29.72	+.23	50	48	-1	SSW	3	b	*	r	*	56	49	-
	Cape Gris Nez ...	?	55	SW	7	r	?	?	55	53	+3	W	6	r	6	r	*	57	50	0.67
	Paris ...	29.70	55	SW	4	bc	29.78	+.16	50	50	-1	S	2	bc	*	bc	*	59	50	0.20
	Brest ...	29.54	56	W	4	c	29.72	+.20	54	?	-1	WNW	2	bc	3	c	*	57	48	0.28
	Lorient ...	29.61	56	WSW	6	r	29.75	+.15	55	52	0	W	4	r	5	r	*	59	50	0.35
FRANCE &	Rochefort ...	29.79	60	SW	5	0	29.83	+.07	57	55	0	W	2	r	*	0	*	63	52	0.12
	Belfort	29.82	54	SW	2	0	29.85	+.02	51	51	0	W	1	f	*	0	*	61	49	0.12
	Lyons	29.88	55	S	1	r	29.88	.00	54	53	-1	NNW	1	r	*	tlr	*	62	54	0.47
	Nice	29.97	52	WNW	9	t	29.94	-.10	57	56	+1	E	2	c	2	tlr	*	63	52	2.48
	Perpignan ...	29.84	58	NE	1	b	29.86	-.02	52	52	-3	SW	1	0	*	b	*	70	50	-
	Biarritz ...	29.79	58	E	3	b	29.82	-.03	55	50	-3	S	2	bc	4	b	*	63	54	-
PENINSULA.	Corunna ...																*			
	Lisbon	30.01	58	Z	0	b	29.96	-.08	56	55	-3	?	5	r	*	b	*	64	55	0.08
	Azores (P. Delgada)	30.15	60	NW	1	bc	30.23	+.12	58	54	-5	WNW	1	c	2	bc	*	68	55	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

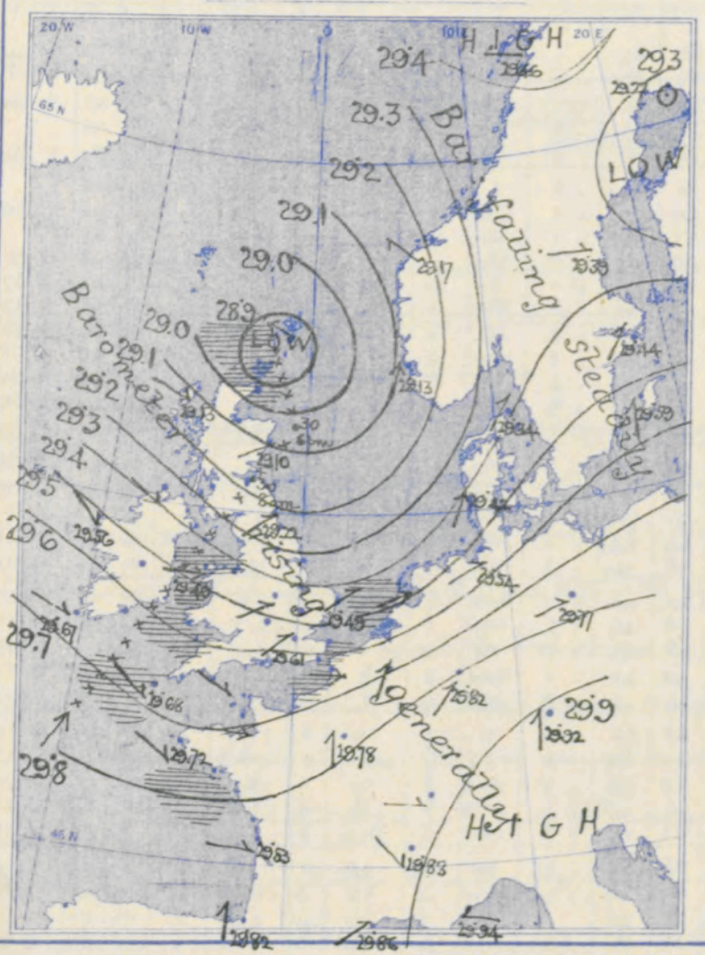
Bright Sunshine yesterday Southport 2.9 hrs;

WEATHER CHARTS

FOR Monday, 31st October, 1898

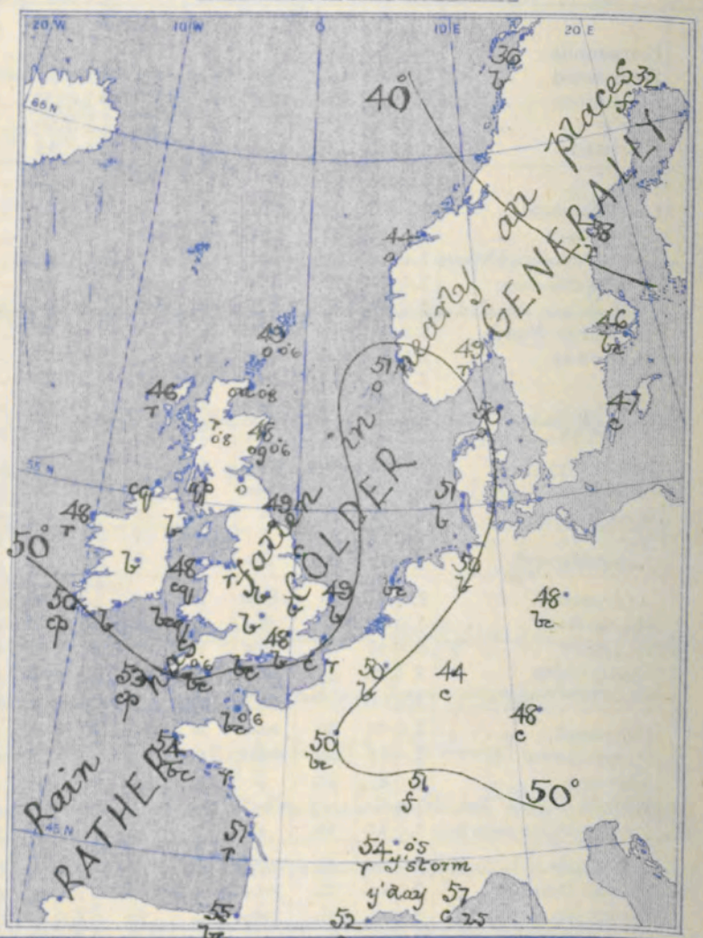
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF OCTOBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·712	45·9	44·2	49·7	41·6	60	1882	26	1875	4·31	—	—
Stornoway	29·743	45·4	44·3	50·8	40·3	67	1895	26	1880	5·15	84·1	27
Wick	29·747	46·1	44·5	51·6	40·4	64	1883, 94	22	1885	3·14	—	—
Nairn	29·763	44·5	42·6	51·9	40·0	69	1895	20	1885	2·51	—	—
Aberdeen	29·779	45·4	43·4	52·3	41·1	74	1883	25	1880	3·05	97·5	31
Leith	29·805	46·4	44·5	54·5	41·4	69	1882	25	1894	2·03	—	—
Shields	29·826	46·9	45·1	53·2	42·2	67	1875, 76, 82, 90	27	1890, 92, 95	2·58	—	—
Spurn Head	29·847	48·8	47·3	53·3	45·5	66*	1882, 90, 95	33*	1887, 95	2·33	—	—
York	29·862	45·6	44·2	54·4	41·0	70	1883, 95	24	1880, 95	2·74	87·3	27
Loughborough	29·886	45·6	44·3	55·6	40·9	77*	1886	20*	1890	2·83	—	—
Ardrossan	29·813	47·6	45·7	53·5	43·4	67	1895	26	1890	3·82	—	—
Malin Head	29·798	48·2	46·1	52·4	45·6	—	—	—	—	—	—	—
Belmullet	29·846	49·4	46·4	53·9	46·0	—	—	—	—	5·18	—	—
Donaghadee	29·834	47·6	46·3	53·6	43·3	65	1895	21	1892	3·22	—	—
Holyhead	29·854	50·1	48·0	54·6	47·0	71	1886	32	1892	4·44	—	—
Liverpool	29·862	47·6	45·5	53·7	44·5	72	1886	27	1895	3·58	—	—
Parsonstown	29·877	45·5	43·9	54·6	40·4	68	1873	22	1880	3·12	97·1	30
Valencia	29·879	51·0	48·8	56·3	46·3	65	1873, 76, 77, 78, 79, 80, 82, 86	28	1892	5·57	104·2	32
Roche's Point	29·876	49·9	48·1	55·7	45·8	65	1880, 84, 86	32	1881	4·16	—	—
Pembroke	29·871	51·0	49·1	54·7	47·8	66	1872, 86	33	1895	4·11	103·4	32
Scilly	29·892	53·6	51·5	56·6	50·0	69	1895	38	1895	3·77	—	—
Prawle Point	29·910	51·0	49·4	56·5	46·1	68*	1882	29*	1887	3·78	—	—
Jersey	29·913	53·3	50·6	58·3	48·7	73	1876	33	1887	4·70	127·4	39
Hurst Castle	29·906	50·7	49·1	57·1	45·8	72	1874	27	1887	3·60	—	—
Dover	29·898	50·2	48·4	56·3	46·1	70	1886	23	1890	3·43	—	—
LONDON	29·907	47·5	45·9	56·6	42·7	80	1886	24	1890	2·82	70·1†	22†
Oxford	29·906	46·0	44·7	55·4	42·0	76	1886	22	1873	2·75	101·7	31
Cambridge	29·895	46·3	45·3	56·4	40·9	80	1886	23	1895	2·41	104·4	32
Yarmouth	29·874	49·1	47·6	54·3	44·6	68	1876	27	1895	3·11	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 29·9 in: and more over South Germany and the southeast of France; (2) 29·46 in: at Bodö.
Lowest, 28·8 in: to 28·9 in: in a small depression lying over the Shetland and Orkney Islands.
Gradients moderate. Distribution mainly anticyclonic.
Barometer rising all over Ireland, England, and France.

TEMPERATURE

Highest, 57° to 54° along the west coast of France, 50° at Paris, Brussels, and the Scaw.
Lowest, 32° at Haparanda, 36° at Bodö, 46° to 49° at the Scotch stations, 40° at Parsonstown.
The highest readings recorded during yesterday ranged from 48° to 51° in Scotland, but touched 55° to 58° in the south of our Islands, 59° at Paris, 63° at Nice, and 70° at Perpignan.

WIND

N. to W. in Scotland (a gale at Wick), NW. and strong on our eastern coasts, W. in the English Channel, SW. over the eastern half of England, and the North Sea.
SW. to W. gales, moderate to fresh in force have been felt in all districts during the past 36 hours. A very local, but severe, whirlwind passed over parts of Camberwell on Saturday night.

WEATHER

Still cloudy, squally and rainy over the northern parts of the Kingdom, but has cleared up in the south.
Rain has fallen generally, especially over Scotland.
Bright Sunshine recorded yesterday amounted to 6·5 hrs: at Cambridge, 5·0 hrs: at Scilly, 4·2 hrs: in London; at the Scotch stations there was none.

SEA

Rough in the north and west, moderate in the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is moving northwards slowly, and at present there is no indication of any new disturbance in the south and west.

FORECASTS

For the 24 hours ending at NOON on 1st Nov.r 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW. gales or strong winds and rain, then moderating and backing, showery.
1 SCOTLAND EAST	
2 ENGLAND N.E.	W. winds, fresh; showery.
3 ENGLAND EAST	W. winds, moderate; fair as a whole; cold night.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 0 & 1.
7 ENGLAND N.W.	NW. and W. winds, strong; showery, bright intervals.
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	

WARNINGS

The signals are still flying on all coasts.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.25	52	51	ENE	2	r	3
Sumburgh Head							
Stornoway	29.08	50	48	ESE	2	0	2
Aberdeen							
Shields							
Ardrossan .							
Malin Head ..	29.02	49	47	SW	3	c	1
Belmullet	29.06	50	47	NW	3	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.51	56	54	SW	5	r	4
Hurst Castle ...							
Dungeness ...	29.44	56	54	SW	7	c	6
North Foreland	29.45	55	51	S	6	c	3
London (Westminster)							*
Yarmouth ..							
Rochefort ...	29.79	62	57	NNW	6	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 23RD TO THE 29TH OCT: 1898.

During nearly the whole of this week a large anticyclone existed over the central and southern parts of Europe, the highest pressures being found at first over the south of Russia and afterwards further to the westward. The winds in those regions were therefore light and variable, with a good deal of cloud and fog over Central Europe, but with fine weather in most of the southern countries.

Over our Islands and all the more northern parts of the Continent the conditions were affected by a series of large, though somewhat shallow, depressions, the centres of which skirted the north of Scotland, and afterwards moved away to the northeastward. The prevailing winds were therefore SW or W, and at some of the more northern stations they occasionally blew with considerable strength, though seldom with the force of a gale. The weather was generally mild and changeable, with frequent rain in the west and north of our Islands and with occasional showers in most other regions, the latter being however, in some cases too slight for measurement. Between the 25th and 26th a well marked secondary disturbance was developed over Finland, the system afterwards moving eastsoutheastwards, and occasioning snow in some parts of Russia.

Towards the close of the week the southern anticyclone began to give way on its western side, while the Atlantic depressions appeared further southward, and spread more immediately over our Islands. The winds over Western Europe consequently backed to the S., and the rainfall became general, a considerable quantity being reported on the 28th over Wales and the southwest of England, and in nearly all parts of Ireland & England on the 29th. On the evening of the latter day a strong S gale sprang up in the Straits of Dover, while a violent squall of a tornado like character passed over Camberwell

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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PORTS FOR OCTOBER 1898.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
"	Paris	29·79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
3	Nairn	-	-	-	-	-	30·24c	+·10	-	-	-	-	-	-	-	-	-	-	-	-
5	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-
6	Sumburgh Head	-	-	-	-	-	30·29	-·10	-	-	-	-	-	-	-	-	-	-	-	-
"	Aberdeen	30·36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-
"	Valencia	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-
9	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	?52	-
.	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-
10	Cambridge	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-
11	Dungeness	-	-	-	-	-	-	-	44	44	-1	-	-	-	-	-	-	-	-	-
12	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-
13	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-
15	Stornoway	-	-	-	-	-	-	-	-	-	-	SE	-	-	-	-	-	-	-	-
16	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
-	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-
"	North Foreland	-	-	-	-	-	-	-	52	51	+1	-	-	-	-	-	-	-	-	-
17	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·24
"	Malin Head 2pm	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-
18	Holyhead	-	-	-	-	-	28·99	+·08	-	-	-	-	-	-	-	-	-	-	-	-
"	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
19	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
21	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·16
23	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-	-
25	Malin Head	-	-	-	-	-	29·60	-·20	-	-	-	-	-	-	-	-	-	-	-	-
"	Valencia	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-
28	Scilly	-	-	-	-	-	29·81	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Loughborough	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Scilly	-	-	-	-	-	-	-	-	-	-	SSE	-	-	-	-	-	-	-	-
"	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4·0	-	-	-
30	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
Date.	Stations.	At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
2	Wiesbaden	-	-	-	-	-	30·26	+·23	52	-	0	N	4	0	-	-	-	55	46	0·04
..	Corunna	30·23	65	N	4	b	30·15	-	61	57	-	NE	1	b	2	b	-	68	52	-
6	The Helder	30·25	57	E	2	0	30·17	-·17	53	-	-2	E	2	0	2	0	-	57	52	-
..	Corunna	30·01	63	NW	1	f	29·93	-	61	57	-	SSE	4	0	?	f	-	70	54	-
7	Corunna	30·01	68	S	4	0	29·96	+·03	?	60	?	S	?	?	2	0	-	70	55	-
9	The Helder	30·06	53	ENE	3	b	30·10	+·07	49	-	-2	E	2	b	1	b	-	55	48	-
11	Corunna	30·10	58	N	4	r	30·22	-	56	54	-	N	1	bc	5	r	-	61	52	0·08
12	Brussels	-	-	-	-	-	29·80	-·19	48	-	+2	WNW	3	0	-	0	-	57	45	0·04
"	Cape Gris Nez	-	55	NE	2	bc	?	?	52	-	-2	N	5	0	5	bc	-	59	48	-
16	Brussels	-	-	-	-	-	29·11	-·21	50	-	+7	ESE	2	r	0	0	-	52	43	0·39
17	The Helder	29·21	41	E	3	r	29·13	-·06	46	-	+8	ESE	1	f	1	r	-	46	37	0·04
18	Haparanda	30·21	22	N	2	b	30·17	-·06	15	14	-8	Z	0	b	-	b	-	30	15	-
..	Hernösand	30·17	29	N	4	0	30·25	+·12	24	23	-2	N	4	bc	-	0	-	34	23	0·43
..	Stockholm	29·92	31	E	4	s	30·01	+·08	31	30	0	NNE	6	b	-	s	-	37	28	0·16
..	Visby	29·83	32	ESE	4	0	29·86	+·04	32	32	-1	E	4	b	-	0	-	36	28	0·04
"	Karlstad	29·95	35	ENE	4	b	30·02	+·08	33	31	0	ENE	6	bc	-	b	-	-	-	-
"	Boaö	30·24	28	E	4	b	30·28	+·06	25	22	-4	E	1	b	1	b	-	32	23	-
"	Christiansund	29·97	36	ESE	5	b	30·15	+·26	32	28	-3	ESE	6	b	3	b	-	41	32	-
"	Skudesnaes	29·81	40	E	6	b	29·85	+·11	35	29	-6	ENE	7	bc	4	b	-	46	34	-
"	Faerder	29·91	34	NE	6	b	29·93	+·07	34	—	-2	ESE	6	s	3	b	-	37	32	-
19	The Helder	29·34	49	SSE	1	0	29·59	+·41	45	—	-5	ESE	2	d	?	0	-	50	41	0·16
20	Corunna	29·91	59	W	2	f	30·01	-	64	63	-	SSW	4	f	3	f	-	66	57	-
21	The Helder	29·93	40	SE	1	d	29·79	-·05	46	-	+7	SE	1	r	?	d	-	46	39	0·08
23	Berlin	30·20	47	SE	1	0	30·23	+·10	52	-	+14	SSW	1	c	-	0	-	52	38	-
"	Wiesbaden	-	-	-	-	-	30·27	+·16	57	-	+6	Z	0	0	-	-	-	64	51	-
25	Cape Gris Nez	?	58	W	5	0	?	-	55	-	-3	WNW	6	0	6	0	-	59	50	-
..	Belfort	30·17	54	W	1	f	30·21	-·01	49	-	-1	W	3	0	-	f	-	60	43	0·04
26	Corunna	30·25	64	NE	3	b	30·22	?	54	52	?	NE	2	b	5	b	-	66	48	-
31	Corunna	29·78	63	S	4	0	29·95	?	54	52	?	NW	1	bc	5	0	-	64	50	0·79